STIC-Biotech/ChemLib

Fr m:

Snedden, Sheridan

Sent:

Wednesday, January 08, 2003 2:48 PM STIC-Biotech/ChemLib

Subject:

Oligo Search Request 09424815

Sheridan SNEDDEN ID# 79298 Date: 1/ 7 /2002

AU 1653 308-4843

Serial #: 09424815 Room Location: 10A12

Mail Box: 9B01

Earliest Priority Filing Date: 05/18/1998

Please perform an OLIGO search for SEQ ID NO: 1

Thanks, Examiner Snedden #79298 A.U. 1653/9B01 Office Location: 10A12 Phone #: 305-4843

Edward Hart Technicai Info. Specialist STIC/Biotech CMI 6B02 Tel: 305-9203

Searcher:
Phone:
Location:
Date Picked Up: 11,91,005
Date Completed: 1/9/03
Searcher Prep/Review:
Clerical:
Online time:

TYPE OF SEARCH:
NA Sequences:
AA Sequences:
Structures:
Bibliographic:
Litigation:
Full text:
Patent Family:
Other:

VENDOR/COST (where applic.)
STN:
DIALOG:
Questel/Orbit:
DRLink:
Lexis/Nexis:
Sequence Sys.:
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Other (specify):

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GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd.

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21 AAG01569	22 AAG75965	22 AAO08731		22 ABG27228	-	21 AAB43549	23 ABP42408	20 AAW95381	15 AAR48204	3 ID
	Human colon cancer	Human polypeptide	Novel human diagno	Novel human diagno	Long term potentia	Human cancer assoc	Human ovarian anti	Antimicrobial pept	Heparin-binding pr	Description

The sequence is that of a heparin binding-protein which is useful as a cell growth agent and in the treatment of wounds and bone disease.

Claim 1; Page 3; 4pp; Japanese.

45	44	43	42	41	40	39	38	37	36	35	34	ω ω	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
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Novel human secret	Arabidopsis thalia		b4B prot	mays protein	mays protein	mays protein	mays protein		Zea mays protein f	thal	bidopsis thali	protein	mays protein	Zea mays protein f	thali	bidopsis thal	protein	mays	otein	thali	Arabidopsis thalia	polypept		#2046	#2155	Peptide #2054 enco		Human brain expres		lde #2131	Peptide #2100 enco	1 human	l human diagn	Novel human secret

ALIGNMENTS

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RESULT 1
AAR448204
ID AAR4
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AC AAR4
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                                                   New heparin-binding protein – used as a cell growth agent for treatment of wounds and bone disease
                                                                                   WPI; 1994-031824/04.
                                                                                                      (FARH ) HOECHST JAPAN LTD
                                                                                                                                                                    21-DEC-1993.
                                                                                                                                                                                                          Rattus norvegicus.
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Query Match
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                                                                                    resistant Klebsiella pneumoniae, E. coli, enterococci, and Salmonella typhinuriom bacteria, micro-organisms difficult to treat such as typhinuriom bactum and M. fortuitum, fungi such as Candida albicans, Mycobacterium avium and M. fortuitum, fungi such as Candida albicans, Cryptococcus neoformans, and Aspergillus fumigatis, viruses, in Cryptococcus neoformans, and parasites such as Trypanosoma cruzi
                                                                                                                                                        Sequences AAW95381-389 represent antimicrobial peptide fragments derived from ubiquicidine. Ubiquicidine or optionally modified peptide fragments of ubiquicidine, may be used for the treatment, diagnosis, or prophylaxis of infections in humans and animals. In particular the products and methods are directed against microbial infections caused by pathogenic Gram-positive Staphylococcus aureus, including antibiotic resistant strains, Listeria monocytogenes, and Gram-negative antibiotic
                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ubiquicidine; treatment; diagnosis; prophylaxis; infection; microbial; pathogenic; Gram-positive bacteria; antimicrobial; Staphylococcus aureus; Listeria monocytogenes; Gram-negative; Klebsiella pneumoniae; E. coli; enterococcus; Salmonella typhinuriom; Mycobacterium avium; M. fortuitum; fungus; Candida albicans; Cryptococcus neoformans; Aspergillus fumigatis;
                                                       Sequence
                                                                                                                                                                                                                                                                                                           New antimicrobial peptides derived from ubiquicidine - the prophylaxis, diagnosis and treatment of infections
                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-070214/06.
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    Conservative
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                                                                                                                                                                                               The invention relates to 2175 novel human ovarian antigens (ABP41054-CC ABP43228) and to cDNAs encoding them (ABP54313-ABQ56305), and also cencompasses polypeptides 90% identical and polynucleotides 95% identical to the sequences of the invention. The invention additionally relates to recombinant vectors and host cells comprising human ovarian antigen polynucleotides, antibodies against human ovarian antigens, and the use of ovarian antigen polynucleotides and polypeptides in diagnosing, treating, prognosing or preventing various ovary and/or breast-related disorders. Such conditions include ovarian cancer and breast cancer, and metastatic tumours of ovarian or breast origin, reproductive system considers (e.g., infertility, disorders of pregnancy, anovulation, polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine disorders, infections (e.g., chamydia, HIV, toxoplasmosis, and toxic shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and vaginitis), immune disorders (e.g., congenital and acquired immunodeficiencies, autoimmune ophoritis, systemic lupus erythematosus), blood-related disorders (e.g., anaemia), cardiovascular disorders, and conternation of the polycystides and conternations and content con
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated nucleic acid molecules encoding novel ovarian polypeptides, useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian cancer) immune disorders, cardiovascular disorders and neurological diseases
polynucleotides may also be used in screening for compounds which modulate ovarian antigen expression or activity. The polynucleotides further be used for gene therapy, chromosome mapping, in the identification of individuals and in forensic analysis, and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim
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                                                                                                                                                                         and urinary system disorders.
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                                                                                                                                                                         Ovarian antigen polypeptides and
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RESULT 4
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Matches 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diagnosis; cytostatic; proliferative; vulnerary; immunomodulator; antidiabetic; antiasthmatic; antirheumatic; antiarhritic; antiviral; antinflammatory; antithyroid; antiarhritic; antibacterial; cardiant; dermatological; neuroprotective; thrombolytic; coagulant; nootropic; vasotropic; antipsoriatic; antianglogenic; gene therapy; inflammation; immune disorder; haematopoietic cell disorder; autoimmune disorder; allergic reaction; graft versus host disease; organ rejection; haematic; thrombolytic; cardiovascular disorder; infection;
                           include: cytostatic; proliferative; vulnerary; immunomodulator; antidiabetic; antiasthmatic; antirheumatic; antiasthmatic; antiinflammatory; antithyroid; antiallergic; antibatterial; antiviral; dermatological; neuroprotective; cardiant; thrombolytic; coagulant; nootropic; vasotropic; antipsoriatic and antianglogenic. The polynucleotides and polypeptides can be used for preventing, treating of ameliorating medical conditions and diagnosing pathological conditions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    polypeptides may be used as food additives or to prepare antibodies useful in disease diagnosis, drug targeting and phenotyping. The present sequence represents a human ovarian antigen of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                 In AAB43398 to AAB44239. The proteins can have activities based on tissues and cells the genes are expressed in. Example of activities include oversetation and formation.
                                                                                                                                                                                                                                   Novel isolated nucleic useful for treating or
                                                                                                                                                                       AAC77607 to AAC78448 encode the human cancer associated
                                                                                                                                                                                                    Claim 11; Page 1568-1569; 2352pp; English.
                                                                                                                                                                                                                                                                                                                                 Rosen
                                                                                                                                                                                                                                                                                                                                                              (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                             12-MAR-1999;
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present invention may be used to treat
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DB; AAC77758.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    drug screening
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Best Local
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                                                                                                                       This is the sequence of a long term potentiation inducing peptide isolated from mice brains by centifugation, extraction, dialysis, reverse phase HPLC and gel filtration chromatography (Sephadex C-25). The peptide is useful for diagnosis and treatment of senile dementia e.g. cerebrovascular or Alzheimer's dementias.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Long term potentiation cerebrovascular; Alzhei
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                                                                                                 Sequence
                                                                                                                                                                                                    Claim
                                                                                                                                                                                                                             and treatment of senile dementia
                                                                                                                                                                                                                                       A long-term potentiation inducing
                                                                                                                                                                                                                                                                WPI; 1996-368226/37.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the present invention.
                                                                                                                                                                                                                                                                                          (SOSE-) SOSEI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         112
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                        -4
           KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQYNRR 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 term potentiation
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KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQYNRR
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59; Conservative
                                                Similarity 100
41; Conservative
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                                                                                                                                                                                                    Page 6; 7pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             170 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           peptide;
                                           69.5%; 5c
100.0%; Pr
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                                                                                                                                                                                                    Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                           inducing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inducing peptide
                                               Score 41; DB; Pred. No. 1.1.
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                              disease.
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Pred. No. 4.7
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A
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1.1e-35;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           mouse;
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                                                                                                                                                                                                                                          useful
                                                 0,
41
                                                                                                                                                                                                                                                                                                                                                                                                                                                           brain; senile dementia;
                                                                        Length
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                                                 Indels
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                                                                                                                                                  (Sephadex C-25)
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RESULT 6
ABG27228
ID ABG2

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108

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RESULT 7
ABG27519
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AC ABG2
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) susful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity.
    ABG27519;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          The polypeptide and polynuclectide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences of the invention.
                                                                                                                                                                                                                                                                                                                                                                                        Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity
                                                      ABG27519 standard; Protein; 108 AA
                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 20; SEQ ID No 57587; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-639362/73.
N-PSDB; AAS91415.
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23-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-MAR-2001; 2001WO-US08631
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                                                                                                                                                                                          20 AKQEKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNAN 58
                                                                                                                                                                                                                                                         Local Similarity 100. es 39; Conservative
                                                                                                                                                                  AKQEKKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNAN 107
                                                                                                                                                                                                                                                                                                                                                     108 AA;
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2000US-0649167.
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3.2e-33;
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AAO08731
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       06-NOV-2001
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polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The carry and gene mapping, and in recombinant production of (II). The carry and gene mapping, and in recombinant production of (II). The carry and gene mapping, and in gene in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II), (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in C diagnostics, forensics, gene mapping, identification of mutations cresponsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and anino acid sequences. ABG00010-ABG30377 represent novel human
                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 39
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         diagnostic amino acid sequences of the invention. Note: The sequence data for this patent did not appear in the specification, but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess
AA008731;
                                                             AAO08731 standard; Protein; 40 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-MAR-2000; 2000US-0540217
23-AUG-2000; 2000US-0649167
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Drmanac RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAR-2001; 2001WO-US08631.
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                                                                                                                                                                                                                               69
                                                                                                                                                                                                                                                                                            20 AKQEKKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001-639362/73.
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                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID No 57878; 103pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                108
                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA;
                                                                                                                                                                                                                                                                                                                                                                                            66.1%;
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                                                                                                                                                                                                                                                                                                                                                                                            Score 39;
                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                DB 22;
3.2e-33;
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(first entry)

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RESULT 9
AAG75965
ID AAG7
XX
AC AAG7
XX
DT 03-S
XX
DE Huma
XX
KW Huma
XX
KW Colo
XX
Homo
XX
Homo
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                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to human polynucleotides (AAI79941-AAI93841) and the encoded proteins (AA000010-AA013910) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopolesis regulating activity, tissue growth factor activity, immunomodulatory activity and activity inhibin activity and may be useful in the diagnosis and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Isolated nuclehe acids and polypeptides, useful for preventing diagnosing and treating e.g. leukaemia, inflammation and immun
                                                     Human; colon
                                                                                                           03-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 20; SEQ ID NO 22623; 1399pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; cytokine; cell proliferation; cell differentiation; gene vaccine; peptide therapy; stem cell growth factor; haematopoiesi vissue growth factor; immunomodulatory; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human polypeptide
               Homo
                                         colorectal carcinoma;
                                                                               Human colon cancer antigen protein
                                                                                                                                      AAG75965;
                                                                                                                                                                AAG75965 stand
                                                                                                                                                                                                                                                                                                                                                                                  Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB; | AAI88662.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI;
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18-MAY-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nervous system disorders; arthritis; inflammation.
                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                         treatment of cancer, leukaemia, nervous system disorders, arthritis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                             23
                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                  4
                                                                                                                                                                                                                                                                                                                                                                     ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   YT,
                                                                                                                                                                                                                                                 EKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNANS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001-514888/56
                                                                                                                                                                                                                                  EKKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNANS
                                                                                                                                                                                                                                                                                       Similarity
37; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Liu
                                                                                                                                                                                                                                                                                                                                             40 AA;
                                                                                                                                                                                                                                                                                        Conservative
                                                    cancer;
                                                                                                          (first
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2000US-0577409
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                                                                                                                                                                rd;
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                                                                                                                                                                Protein;
                                                                                                        entry)
                                       colon cancer antigen;
; chromosome 11.
                                                                                                                                                                                                                                                                                                    62.7%;
100.0%;
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                                                                                                                                                                                                                                                                                                    Score 37;
Pred. No.
                                                                                                                                                            AA.
                                                                                                                                                                                                                                                                                       Mismatches
                                                                               SEQ
                                                                               ID NO:6729
                                                                                                                                                                                                                                                                                                                DB 22;
                                                                                                                                                                                                                                                                                                    1.7e-31;
                                                    diagnosis;
                                                                                                                                                                                                                                                            59
                                                                                                                                                                                                                                  40
                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                               Length 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    haematopoiesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and immune
                                                    detection;
                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                      Gaps
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RESULT 10
AAG01569
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CC AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon CC cancer associated nucleic acid molecules (N) and proteins (P), where CC the proteins are collectively known as colon cancer antigens. The colon CC cancer antigens have cytostatic activity and can be used in gene CC therapy and vaccine production. N and P may be used in the prevention, CC diagnosis and treatment of diseases associated with inappropriate P CC expression. For example, N and P may be used to treat disorders CC in a patient's genome that affect the activity of p by expressing CC inactive proteins or to supplement the patients own production of P. CC Additionally, N may be used to produce the colon cancer associated Ps, by inserting the nucleic acids into a host cell and culturing the cell CC by inserting the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAP7789 represent sequences used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                present invention.

N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present SEQ ID NO:1027 to 1052, 7921 and 7922.
                                                                                                                      gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-235357/24.
N-PSDB; AAH35370.
                                                                                                                                                                                        06-OCT-2000
                                                                                                                                                                                                                                              AAG01569 standard; Protein; 130
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
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03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-APR-2001
                                                                                          Homo sapiens
                                                                                                                                                               Human
                                                                                                                                                                                                                   AAG01569;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                 KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQ
                                                                                                                   therapy;
                                                                                                                                                                                                                                                                                                                 KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQ
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                                                                                                                                                             secreted
                                                                                                                                  5' EST;
                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                            157
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                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                        (first entry)
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                                                                                                                      chromosome mapping.
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                                                                                                                                                             protein,
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99US-0163280.
                                                                                                                                    expressed
                                                                                                                                                                                                                                                                                                                                                                                   62.7%;
100.0%;
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                                                                                                                                                             SEQ ID
                                                                                                                                    sequence
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                                                                                                                                                                                                                                                                                                                                                                                   Score 37;
Pred. No.
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0:
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                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                  tag; secreted
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                                                                                                                                                               5650
                                                                                                                                                                                                                                                                                                                                                                                   DB 22;
5.7e-31;
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                                                                                                                                                                                                                                                                                                                                           37
                                                                                                                                  protein;
                                                                                                                                                                                                                                                                                                                                                                                               Length 157;
                                                                                                                                     cDNA isolation;
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21-FEB-2000; 2000EP-0200610

06-SEP-2000

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RESULT 11
AAU30872
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence is a polypeptide encoded by one of a large number of 5 ESTs derived from mRNAs encoding secreted proteins. The 5 ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3 untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5 ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5 UTR is rarely included. 5 ESTs are derived from mRNAs with intact 5 ends and can therefore be used to obtain full length cDNAs and genomic chromosome mapping procedures. They are used to obtain upstream correction were sequences and to detain and correction were considered.
                                                                                                                                                                                                                                                                                      Human; vaccination; gene therapy; nutritional supplement; stem cell proliferation; haematopoiesis; nerve tissue regeneration; immune suppression; immune stimulation; anti-inflammatory; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
Nucleic acids encoding a vaccination, testing and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 13; SEQ ID 5650; 71pp + CD-ROM; English.
                                                      WPI; 2001-611725/70
                                                                                                                                     18-APR-2000;
26-JAN-2001;
                                                                                                                                                                               16-APR-2001; 2001WO-US08656
                                                                                                                                                                                                                                     WO200179449-A2
                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                              Novel human secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                AAU30872 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dumas Milne Edwards
                                                                                                          (HYSE-) HYSEQ
                                                                                                                                                                                                                                                                                                                                                                         18-DEC-2001 (first entry)
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DB; AAC01575.
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32; Conser
                                                                              Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             130 AA;
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                                                                                                                                     2000US-0552929
2001US-0770160
                                                                                                          INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-0122487
                                                                                Drmanac
                                                                                                                                                                                                                                                                                                                                                                                                                              Protein; 312 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ŗ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    54.2%;
                                                                                                                                                                                                                                                                                                                                              protein #1363.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and to design expression and secretion vectors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Duclert A,
            therapy
                         range of human polypeptides, useful in
                                                                                RT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 32;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Giordano
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8.6e-26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                         genetic
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В
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to novel human secreted polypeptides. The polypeptides and antibodies to the polypeptides are useful for determining the presence of or predisposition to a disease associated with altered levels of polypeptide. The polypeptides are also useful for identifying agents (agonists and antagonists) that bind to them. Cells expressing the proteins are useful for identifying a therapeutic agent for use in treatment of a pathology related to aberrant expression or physiological interactions of the polypeptide. Vectors comprising the nucleic acids encoding the polypeptides and cells genetically engineered to express them are also useful for producing the proteins. The proteins are useful in genetic vaccination, testing and therapy, and can be used as nutritional supplements. They may be used to increase stem cell proliferation; to regulate haematopolesis; and in bone, cartilage, tendon and/or stimulation; as anti-inflammatory agents; and in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid sequences of novel human secreted proteins of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                        New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess biodiversity
                                                      Claim 20; SEQ ID No 57589; 103pp; English
                                                                                                                                                                                                                                                              31-MAR-2000; 2000US-0540217
23-AUG-2000; 2000US-0649167
                                                                                                                                                                                                                                                                                                                                                                                                                           Human; chromosome mapping; gene mapping; gene therapy; forension food supplement; medical imaging; diagnostic; genetic disorder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim
                                                                                                                                                           WPI; 2001-639362/73.
N-PSDB; AAS91417.
                                                                                                                                                                                                                                                                                                                                        11-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                     WO200175067-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel human diagnostic protein #27221.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABG27230 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                   (HYSE-) HYSEQ
                                                                                                                                                                                                                                                                                                           30-MAR-2001; 2001WO-US08631
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
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                                                                                                                                                                                                      RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 364; 765pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    312
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                                                                                                                                                                                                         Liu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                   INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          54.2%;
                                                                                                                                                                                                       Tang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 32;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 312;
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                                                                                                                                                                                                                                                                                                                                                                                                                                           forensic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome

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ABG27520
ID ABG27
XX ABG27
XX ABG27
XX ABG27
XX 18-FE
XX Human
XX Human
XX Homo
XX Hom
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC and gene mapping, and in recombinant production of (II). The CC polynucleotides are also used in diagnostics as expressed sequence tags CC for identifying expressed genes. (I) is useful in gene therapy techniques CC (II). (II) is useful for generating artibodies against it, detecting or CC (II). (II) is useful for generating antibodies against it, detecting or CC quantitating a polypeptide in tissue, as molecular weight markers and as CC a food supplement. (II) and its binding partners are useful in medical CC imaging of sites expressing (II). (I) and (II) are useful for treating CC disorders involving aberrant protein expression or biological activity. CC The polypeptide and polynucleotide sequences have applications in CC diagnostics, forensics, gene mapping, identification of mutations CC responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and CC amino acid sequences. ABG00010-ABG30377 represent novel human CC diagnostic amino acid sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed CC specification, but was obtained in electronic format directly from WIPO at fermion with the sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local :
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags
                                                                                                                                                                                                                                                                                                                 New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -
                                                                                                                                                                                                                                    Claim 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Drmanac RT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HYSE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-2000;
23-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-MAR-2001; 2001WO-US08631.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel human diagnostic protein #27511.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABG27520;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29 TGRAKRRMQYNRREVNVVPTFGKKKGPNANS 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001-639362/73.
DB; AAS91707.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGRAKRRMQYNRRFVNVVPTFGKKKGPNANS 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HYSEQ
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                                                                                                                                                                                                                        SEQ ID No 57879; 103pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 52.5%;
llarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0540217.
2000US-0649167.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            YT;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
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4.9e-25;
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RESULT 14
ABB29449
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CC Note: The sequence data for this patent did not appear in the printed CC specification, but was obtained in electronic format directly from WIPO CC at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                         30-JUN-2000;
03-AUG-2000;
21-SEP-2000;
                                                                                                                                                              Penn
                                                                                                                                                                                                                                                                                                                                                                                                                           disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-FEB-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABB29449;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABB29449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                             Claim
                                                                                   New spatially-addressable set of single useful for measuring gene expression in breast, comprises number of single exon
                                                                                                                                                                                                                                                                                             04-FEB-2000;
                                                                                                                                                                                                                                                                                                                      30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                               09-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                       WO200157271-A2
                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; microarray;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Peptide #2100
                                                                                                                                                                                         (MOLE-)
                                                                                                                                                                                                                                                                              26-MAY-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SG,
                                                                                                                                      2001-496933/54.
                                                             27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
31; Conser
                                                                                                                                                                                         MOLECULAR DYNAMICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                          cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard;
                                                             SEQ
                                                                                                                                                               Hanzel DK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90
                                                                                                                                                                                                               2000US-0180312.
2000US-0207456.
2000US-0608408.
2000US-0632366.
2000US-0234687.
2000US-0234687.
2000US-02368359.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                   2001WO-US00662.,
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                                                             IJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                              encoded by breast cell single exon nucleic acid probe
                                                             NO 12417;
                                                                                                                                                                                                                                                                                                                                                                                                                                       single exon probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptide; 118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       52.5%;
                                                                                                                                                               Chen
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                                                             327pp +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 31;
Pred. No.
                                                                                                                                                               Rank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                             sequence
                                                                                                                                                               DR;
                                                                                                                                                                                                                                                                                                                                                                                                                                      gene expression; breast;
                                                                                   exon nucleic acid probes, sample derived from human nucleic acid probes -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 22;
7e-25;
                                                           listing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                             English
                                                                                                     human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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The invention relates to a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derive from human breast and BT 474 cells. The method involves contacting the probes with a collection of detectably labelled nucleic acids

e derived

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RESULT 15
ABB34625
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Best Local S
Matches 28
                                                                                                                                                                                                                                                                                                                                            04-FEB-2000;
26-MAY-2000;
30-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     derived from mRNA of human breast, and then measuring the label bound to each probe of the microarray. The probes are useful for verifying the expression of regions of genomic DNA predicted to encode proteins. They are useful for gene discovery, and for determining predisposition and/or prognosing breast disease. Gene expression analysis is useful for assessing the toxicity of chemical agents on cells. The microarray of this invention presents a far greater diversity of probes for measuring gene expression, with far less bias than expressed sequence tag microarrays. The method is suitable for rapid production of functional information from genomic sequence. The present sequence is a peptide encoded by a single exon nucleic acid
          The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes map be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a peptide encoded by a single exon nucleic acid probe of the invention.
                                                                                                                                                              Human
                                                                                                                                                                                               WPI;
                                                                                                              Claim 27; SEQ ID NO 27260; 639pp + sequence listing; English.
                                                                                                                                                analyzing
                                                                                                                                                                                                                                                                                                   21-SEP-2000;
27-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Note: The sequence data for this patent did not form part of printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                          SG,
                                                                                                                                               genome-derived single exon nucleic acid probes useful for zing gene expression in human fetal liver -
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 sequence data for
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2000US-0207456.
2000US-0608408.
2000US-0632366.
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this patent did not
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CC printed specification, but was obtained in electronic format directly CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

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SQ Sequence 118 AA;
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Query Match 47.5%; Score 28; DB 22; Length 118; Best Local Similarity 100.0%; Pred. No. 1.3e-21; Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 1 KVHGSLARAGKVRGQTPKVAKQEKKKK 28
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Db 56 KVHGSLARAGKVRGQTPKVAKQEKKKKK 83

Search completed: January 9, 2003, 12:29:33

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RESULT 2 US-08-743-130A-2 Sequence 2, Ag Patent NO. 587 GENERAL INFOG APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: TITLE OF IN NUMBER OF SECORRESPONDE ADDRESSEE	Query Matcl Best Local Matches Qy 22 QE 1 Db 375 QE	RESULT 1 US-08-487-810-2 Sequence 2, A Patent No. 56 GENERAL INFO APPLICANT: TITLE OF I TITLE OF I NUMBER OF COMPUTER R COMPUTER T TOMPARE CURRENT APPLICAT INFORMATION SEQUENCE C S SEQUENCE C S S S S S S S S S S S S S S S S S S S		4444433333333322 54444433376544321
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RESULT 3
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NAME: Brook Esq., David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: CPI9:
TELECOMMUNICATION INFORMATION:
TELECHONE: (617) 861-6240
TELECAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
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ADDRESSE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
                                                                                                                                                                                                                                                                                                                                               APPLICANT: Tao, Jianshi
APPLICANT: Houman, Fariba
TITLE OF INVENTION: CANDIDA TY
TITLE OF INVENTION: PROTEINS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
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CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
               ATTORNEY/AGENT INFORMATION:
NAME: Brook Esq., David E.
REGISTRATION NUMBER: 22,59
                                                                                                              CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360 KQEKKKK 366
                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                             APPLICATION NUMBER: US/0 FILING DATE: 01-NOV-1996 CLASSIFICATION: 435
                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 02173
                                                                                                                                                                                                                                                   STATE: Massachusetts
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/01 FILING DATE: 01-NOV-1996 CLASSIFICATION: 435
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
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Tao, Jianshi
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100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                    CANDIDA TYROSYL-tRNA SYNTHETASE PROTEINS, NUCLEIC ACIDS AND STRAINS COMPRISING SAME
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                                                                                                US/08/743,130A
CPI95-12
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Pred. No.
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Query Match
Best Local Similarity
Thes 7; Conserve
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US-09-568-102-5
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US-08-743-130A-39
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; LENGTH: 7257
; TYPE: PRT
   NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
                                                                                                                                                                                                                                                          Sequence 5, Application Patent No. 6346404 GENERAL INFORMATION:
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                                                      CURRENT APPLICATION NUMBER: US/09/568,102
CURRENT FILING DATE: 2000-05-10
PRIOR APPLICATION NUMBER: 09/335,409
PRIOR FILING DATE: 1999-06-17
                                                                                                                            APPLICANT: Cyr, Devon
APPLICANT: Goerlach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
FILE REFERENCE: 4-30582A
                                                                                                                                                                                         APPLICANT: Schupp, Thomas
APPLICANT: Ligon, James
APPLICANT: Molnar, Istvan
APPLICANT: Zirkle, Ross
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APPLICANT: Ligon, James
APPLICANT: Molnar, Istvan
APPLICANT: Zirkle, Ross
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CURRENT FILING DATE: 1999-06-17
NUMBER OF SEQ ID NOS: 30
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APPLICANT: Goerlach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
FILE REFERENCE: 4-30582A
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TELEPHONE: (617) 861-6240
TELEPHAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 39:
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LENGTH: 7257
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LENGTH: 409 amino acids
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Mismatches
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RESULT 6
US-09-567-969-5
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Best Local Similarity
7; Conserva
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US-09-568-480-5
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; TYPE: PRT
; ORGANISM: Sorangium cellulosum
US-09-567-969-5
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                                      US-09-568-480-5
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APPLICANT: Ligon, James
APPLICANT: Molhar, Istvan
APPLICANT: Zirkle, Ross
                                                 SEQ ID NO 5
LENGTH: 7257
TYPE: PRT
ORGANISM: Sorangium cellulosum
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 Query Match
                                                                                                                                      APPLICANT: Cyr, Devon
APPLICANT: Goerlach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
FILE REFERENCE: 4-30582A
CURRENT APPLICATION NUMBER: US/09/568,480
CURRENT FILING DATE: 2000-05-10
PRIOR APPLICATION NUMBER: 09/335,409
PRIOR FILING DATE: 1999-06-17
NUMBER: 09/335,409
NUMBER: 09/335,409
NUMBER: 09/335,409
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APPLICANT: Goerlach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
ETLE REFERENCE: 4-30582A
CURRENT APPLICATION NUMBER: US/09/567,969
CURRENT FILING DATE: 2000-05-10
PRIOR APPLICATION NUMBER: 09/335,409
PRIOR APPLICATION NUMBER: 09/335,409
PRIOR FILING DATE: 1999-06-17
NUMBER OF SEQ ID NOS: 30
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APPLICANT: Ligon, James
APPLICANT: Molnar, Istvan
APPLICANT: Zirkle, Ross
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100.0%; Pred. No.
11.9%; Score 7;
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 DB 4;
Length 7257;
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SOFTWARE: Patentin Ver. 2.0
SEO ID NO 5
LENGTH: 7257
TYPE: PRT
ORGANISM: Sorangium cellulosum
US-09-568-472-5
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CURRENT FILING DATE: 2000-05-10
PRIOR APPLICATION NUMBER: 09/335,409
PRIOR FILING DATE: 1999-06-17
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PATENTIN VET. 2.0
SEQ ID NO 5
LENGTH: 7257
                                                       Query Match 11.9%; Score 7; DB Best Local Similarity 100.0%; Pred. No. 95 Matches 7; Conservative 0; Mismatches
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Patent No. 6355459
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APPLICANT: Ligon, James
APPLICANT: Wolnar, Istvan
APPLICANT: Zirkle, Ross
APPLICANT: Zirkle, Ross
APPLICANT: Cyr, Devon
APPLICANT: Goerlach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
FILE REFERENCE: 4-30582A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent No. 635871
                                                                                                                                                                                                                                                      APPLICANT: MOINAY, ISTVAN
APPLICANT: Zirkle, Ross
APPLICANT: Cyr, Devon
APPLICANT: Goerlach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
FILE REFERENCE: 4-30582A
CURRENT FILING DATE: 2000-05-10
PRIOR APPLICATION NUMBER: 09/335,409
PRIOR APPLICATION NUMBER: 09/335,409
PRIOR FILING DATE: 1999-06-17
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                                                                                      US-09-082-358B-62
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                                                                                                          RESULT 12
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Sequence 62, Application US/09082358B
Patent No. 6469153
GENERAL INFORMATION:
APPLICANT: Goff, Stephen P.
APPLICANT: Li, Xingquiang
                                                                                                                                                                                                                                Query Match
Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/082,358B CURRENT FILING DATE: 1998-05-20 NUMBER OF SEQ ID NOS: 106 SOFTWARE: Patentin Ver. 2.1 SEQ ID NO 24 LENGTH: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Schupp, Thomas
APPLICANT: Ligon, James
APPLICANT: Molnar, Istvan
APPLICANT: Zirkle, Ross
                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Goff, Stephen P.
APPLICANT: Li, Xingquiang
TITLE OF INVENTION: EIP-1, EIP-3 GENES, ENVELOPE-INTERACTING PROTEINS,
TITLE OF INVENTION: EIP-1, and EIP-3
FILE REFERENCE: 0575/24804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Zirkle, Ross
APPLICANT: Cyr, Devon
APPLICANT: Goerfach, Joern
TITLE OF INVENTION: GENES FOR THE BIOSYNTHESIS OF EPOTHILONES
FILE REFERENCE: 4-30582A
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TYPE: PRT
ORGANISM: Sorangium cellulosum
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SOFTWARE: PatentIn Ver. 2.0
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CURRENT FILING DATE: 2000-05-10
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les 6; Conser
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les 7; Conserv
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100.0%; Pr
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100.0%; Pred. No. 95;
Live 0; Mismatches
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b; Pred. No. 6.8
0; Mismatches
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; LENGTH: 15
; TYPE: PRT
; ORGANISM: murine
US-09-082-358B-62
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Best Local Similarity
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FILE REFERENCE: 0575/54804

CURRENT APPLICATION NUMBER: US/09/082,358B

CURRENT FILING DATE: 1998-05-20

NUMBER OF SEQ ID NOS: 106

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No. 6093809
                                             ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 0153
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 1076-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                  TELEFAX: (415) 576-0300 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                  CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
US 08/724,643
                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
APPLICATION NUMBER: US,
FILING DATE: 06-MAY-199
CLASSIFICATION:
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PRIOR APPLICATION DATA:
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APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
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MEDIUM TYPE: Floppy disk
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CORRESPONDENCE ADDRESS:
SEQUENCE CHARACTERISTICS:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
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CITY: San Francisco
STATE: California
                                                                                                                                                          CLASSIFICATION:
                                                                                                                                                                          APPLICATION NUMBER: FILING DATE: 01-OC
                                                                                                                                                                                                                                              APPLICATION NUMBER: US 0 FILING DATE: 18-APR-1997
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VENTION: No. 6093809el Telomerase
EQUENCES: 225
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Harley, Calvin
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Nakamura, Toru
Chapman, Karen B.
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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                  APPLICATE: 09-MA.
FILING DATE: 09-MA.
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/911,312
APPLICATION NUMBER: US 08/911,312
APPLICATION NUMBER: US 08/911,312
APPLICATION NUMBER: US 08/911,312
                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 00
FILING DATE: 01-OCT-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 00
FILING DATE: 18-APR-1997
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MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION: Human Telomerase Catalytic Subunit
NUMBER OF SEQUENCES: 727
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                                                                             FILING DATE: 14-AUG-1997 PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                          APPLICATION NUMBER: US 08/851,843 FILING DATE: 06-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                              FILING DATE:
                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER:
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APPLICATION NUMBER: WO PCT/US97/17618 FILING DATE: 01-OCT-1997
                                                              APPLICATION NUMBER:
                                                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION:
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19-NOV-1997
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25-APR-1997
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18-APR-1997
                                             14-AUG-1997
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Pred. No.
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RESULT 15
US-08-854-050-201
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TELEPHONE: (415) 576-0200
TELEPAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 320:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 201,
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TOPOLOGY: lin
MOLECULE TYPE:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: 25-APR-1997
                                                                                                                                                                                                                     APPLICATION NUMBER: (FILING DATE: 09-MAY-1 CLASSIFICATION: 536 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/854,050
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ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph Te
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APPLICATION NUMBER: WO P
FILING DATE: 01-OCT-1997
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                                                                                            PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                        APPLICATION NUMBER: US 0 FILING DATE: 06-MAY-1997 CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23 EKKKKK 28
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                                               CLASSIFICATION:
                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                 STATE: California
                                                                             APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 EKKKKK 13
                                                                                                                                                                                                                                                                                                                                                                                                                                  San Francisco
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                                                                                                                                                                                                                                                                                                                                                                                                                                             E: Townsend and Townsend and Crew LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08854050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chapman, Karen B.
Morin, Gregg B.
                                                                                                                                                                                                                                                                                                                                                                                                 United States of America
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; Pred. No
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CLASSIFICATION: 516
ANTIONAY/AGENT INFORMATION:
REDIENAY/AGENT INFORMATION:
REDIENAY/AGENT INFORMATION:
TELEPHONICATION INTORMATION:
TELEPHONICATION INFORMATION:
TELEPHONICATION INFORMATION:
TELEPHONICATION FOR $50 D IN 0:
1 INFORMATION FOR $50 D IN 0:
2 INFORMATION FOR $50 D IN 0:
3 INFORMATION FOR $50 D
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Result
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        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Match
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Gapop 60.0 , Gapext 60.0
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59
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      118974 seqs, 19401057 residues
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: //cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep: *
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: //cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep: *
: //cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep: *
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      0 US-09-925-301-994

0 US-09-864-761-35333

0 US-09-864-761-39-984

0 US-09-774-639-155

1 US-09-774-639-155

1 US-09-983-067-1

1 US-09-945-249-87

1 US-09-945-249-87

1 US-09-945-729

1 US-09-945-761-41097

1 US-09-955-299-1319

1 US-09-976-864-761-41097

1 US-09-976-864-761-864
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Compugen Ltd
Sequence 155, Appli
Sequence 1, Appli
Sequence 21, Appli
Sequence 87, Appli
Sequence 729, App
Sequence 719, App
Sequence 11319, App
Sequence 1189, App
Sequence 11474, App
Sequence 11474, App
Sequence 11820, App
Sequence 11843, App
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Sequence 35333, A
Sequence 39484, A
Sequence 1759, Ap
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ALIGNMENTS	US-09-764-869-926 US-09-925-299-1098 US-09-764-869-1228 US-09-764-869-133 US-09-764-847-611 US-09-864-761-47812 US-09-864-761-47812 US-09-89-919-118 US-09-925-300-1198 US-09-925-301-1475 US-09-925-301-1475 US-09-764-846-224 US-09-764-846-249 US-09-764-846-191 US-09-764-846-191 US-09-764-846-191 US-09-764-846-191 US-09-764-846-191 US-09-764-846-191 US-09-764-846-191 US-09-925-390-1105 US-09-964-966-242 US-09-833-067-9 US-09-833-067-9 US-09-833-067-9 US-09-964-761-44564
	Sequence 926, App Sequence 1098, Ap Sequence 1128, App Sequence 47593, A Sequence 47593, A Sequence 118, App Sequence 118, App Sequence 118, App Sequence 2, App11 Sequence 24501, App Sequence 24501, App Sequence 24501, App Sequence 1089, App Sequence 19, App1 Sequence 19, App1 Sequence 19, App1 Sequence 191, App Sequence 192, App11 Sequence 242, App11 Sequence 242, App Sequence 242, App Sequence 242, App11 Sequence 241, App

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Sequence 994, Application US/09925301

Patent NO. US20020052308A1

GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA106
CURRENT APPLICATION NUMBER: US/09/925,301
CURRENT APPLICATION NUMBER: PCT/US00/05882
PRIOR APPLICATION NUMBER: PCT/US00/05882
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR APPLICATION NUMBER: 05/124,270
                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Homo sapiens
; FEATURE;
; NAME/KEY: SITE
; LOCATION: (5)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids US-09-925-301-994
                                               .. .. ..
                                                                                                               RESULT 2
US-09-864-761-35333
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 1694
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 994
LENGTH: 170
TYPE: PRT
                                          Sequence 35333, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                   Query Match 100.0%; Score 59; DB 10; Best Local Similarity 100.0%; Pred. No. 1.4e-47;
APPLICANT: Penn, Sharron G. APPLICANT: Rank, David R.
                                                                                                                                                                                                           112 KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNANS 170
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APPLICANT: Chen, Wensheng TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY

FOR

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CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING PATE: 2001-05-23

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TYPE: PRT
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FORMATION: MAP TO AC009704.2

AFORMATION: EXPRESSED IN LUNG, S.

AFORMATION: EXPRESSED IN ADULT INFORMATION: EXPRESSED IN BALLY

INFORMATION: EXPRESSED IN BRAIN
(INFORMATION: EXPRESSED IN BONF
AR INFORMATION: EXPRESSED IN FETTER INFORMATION: EXPRESSED IN FETTER INFORMATION: EXPRESSED IN HER INFORMATION: EXPRESSED IN HER INFORMATION: EXPRESSED IN HER INFORMATION: EXPRESSED IN HIPORMATION: EXP
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APPLICATION NUMBER: PCT/US01/00661

TOTAL DATE: 2001-01-30

TOTAL DATE: 2001-01-07
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APPLICATION NUMBER: PCT/US01/00669
PTITING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 09/774,203 FILING DATE: 2001-01-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US01/00670
FILING DATE: 2001-01-30
APPLICATION NUMBER: US 60/234,687
FILING DATE: 2000-09-21
APPLICATION NUMBER: US 09/608,408
FILING DATE: 2000-06-30
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APPLICATION NUMBER: PCT/US01/00665
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00668
FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00666
FILING DATE: 2001-01-30
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APPLICATION NUMBER: US 60/236,359
FILING DATE: 2000-09-27
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FILING DATE: 2001-01-30
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KVHGSLARAGKVRGQTPKVAKQEKKKKK 83
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ilarity 100.0%;
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ED IN ADULT LIVER, SIGNAL = 8.8
ED IN PLACENTA, SIGNAL = 18
ED IN BRAIN, SIGNAL = 5.5
ED IN BONE MARROW, SIGNAL = 9.3
ED IN FETAL LIVER, SIGNAL = 4.1
ED IN BT474, SIGNAL = 11
ED IN HEART, SIGNAL = 12
ED IN HEART, SIGNAL = 12
ED IN HELA, SIGNAL = 
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Pred. No.
                                                                                                                                                                                        Mismatches
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Query Match Best Local

Similarity 7; Conserv

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Score 7; Pred. No. Mismatches υ. ΒΒ 10;

Length 62 Indels

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US-09-864-761-39484
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PRIOR FILING DATE: 2000-02-04
PRIOR PPLICATION NUMBER: US 60/207,456
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-010-04
PRIOR FILING DATE: 2000-10-04
PRIOR FILING DATE: 2000-10-04
PRIOR PRICING NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
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                                                                                                              OTHER INFORMATION: MOTHER INFORMATION: E OTHER INFORMATION: E OTHER INFORMATION: E OTHER INFORMATION: E OTHER INFORMATION: E
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SOFTWARE: Annomax Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Homo
                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NO 39484
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                                   INFORMATION:
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5. US20020
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EXPRESSED IN BRAIN,
EXPRESSED IN BONE P
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                          D IN ADULT LIVER, SIGNAL = 7.0 D IN PLACENTA, SIGNAL = 7.4 D IN LUNG, SIGNAL = 7.2 D IN HELA, SIGNAL = 7.2 D IN HEART, SIGNAL = 7.2 D IN BRAIN, SIGNAL = 7.3 D IN BRAIN, SIGNAL = 7.3 D IN FETAL LIVER, SIGNAL = 7.4 D IN FETAL LIVER, SIGNAL = 7.5 D IN FETAL LIVER D IN FETAL 
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Sequence 5, Application US/10014717
Publication wb. US20020192778A1
GENERAL INFORMATION:
APPLICANT: Schupp, Thomas
APPLICANT: Ligon, James
APPLICANT: Molnar, Istvan
APPLICANT: Zirkle, Ross
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Best Local Similarity
watches 7; Conserv
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Sequence 155, Application US/09774639
Publication No. US20030003555A1
GENERAL INFORMATION:
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; Sequence 1759, Application US/09764877
; Patent No. US20020147140A1
                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Homo sapiens US-09-774-639-155
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CURRENT FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/244,112
PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 371
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 155
LENGTH: 227
TYPE: PRT
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SEQ ID NO 1759
LENGTH: 121
TYPE: PRT
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APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC005
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CURRENT FILING DATE: 2001-01-17
Prior application data removed - refer to PALM
NUMBER OF SEQ ID NOS: 4031
 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Rosen et al.
TITLE OF INVENTION: 90 Human Secreted Proteins
FILE REFERENCE: 9201391
                                                                                                                                                                                                                   220 EKKKKKT 226
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les 7; Conserv
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Goerlach, Joern
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TITLE OF INVENTION: Process for Producing Peptides By Using In TITLE OF INVENTION: Transcription/Translation System FILE REFERENCE: 1752-0151p

CURRENT APPLICATION NUMBER: US/09/983,067

CURRENT FILING DATE: 2001-10-23

PRIOR APPLICATION NUMBER: US/29/95/2001

PRIOR FILING DATE: 2001-09-26

PRIOR FILING DATE: 2001-07-27

PRIOR APPLICATION NUMBER: JP 27/094/2001

PRIOR APPLICATION NUMBER: JP 6910/2001

PRIOR APPLICATION NUMBER: JP 6910/2001

PRIOR APPLICATION NUMBER: JP 401417/2000

PRIOR FILING DATE: 2001-01-28

PRIOR FILING DATE: 2001-01-28

PRIOR FILING DATE: 2001-01-15

PRIOR FILING DATE: 2001-01-28

NUMBER OF SEQ ID NOS: 6
             RESULT 8
US-09-945-249-87
Sequence 87, Application US/09945249
Patent No. US20020168748A1
Patent No. US20020168748A1
GENERAL INFORMATION:
APPLICANT: BERLIN, VIVIAN
APPLICANT: DAVAGNEZ, VERONIQUE
APPLICANT: DAVAGNEZ, VERONIQUE
APPLICANT: SMITH, SUSAN E.
TITLE OF INVENTION: ASSAYS AND REAGENTS FOR IDENTIFYING ANTI-FUNGAL AGENTS,
TITLE OF INVENTION: ASSAYS AND REAGENTS FOR IDENTIFYING ANTI-FUNGAL AGENTS,
TITLE OF INVENTION: ASSAYS AND REAGENTS FOR IDENTIFYING ANTI-FUNGAL AGENTS,
TITLE OF INVENTION: AND USES RELATED THERETO
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Best Local Similarity
Thes 7; Conserve
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; TYPE: PRT
; ORGANISM: Sorangium cellulosum
US-10-014-717-5
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CURRENT APPLICATION NUMBER: US/09/945,249
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CURRENT FILING DATE: 2001-11-13
PRIOR APPLICATION NUMBER: US/09/335,409
PRIOR FILING DATE: 1999-06-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn version 3.1
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100.0%; Pr
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b; Pred. No. 1.6
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PRIOR APPLICATION NUMBER: 0,000
PRIOR FILING DATE: 2001-01-13
PRIOR FILING DATE: 2001-01-12
PRIOR APPLICATION NUMBER: 08/771,212
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 08/631,319
PRIOR FILING DATE: 1996-04-11
NUMBER OF ISEQ ID NOS: 89
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 87
LENGTH: 15
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Best Local Similarity 100.
Thes 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence FEATURE:
                                                                      PRIOR APPLICATION DATA:

APPLICATION UNMBER: US/08/854,050

FILING DATE: 09-MAY-1997

APPLICATION UNMBER: US 08/846,017

FILING DATE: 25-APR-1997

APPLICATION UNMBER: US 08/844,419

FILING DATE: 18-APR-1997

APPLICATION UNMBER: US 08/724,643

FILING DATE: 01-OCT-1996

ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23 EKKKKK 28
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                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OSOFWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/843,676
FILLING DATE: 26-Apr-2001
CLASSIFICATION: 536
NAME: APP1e, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-002930US
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Morin, Gregg B.
Harley, Calvin
Andrews, William H.
TITLE OF INVENTION: NO. US20020164786A1el Telomerase
NUMBER OF SEQUENCES: 225
                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EKKKKKK 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: United States of America ZIP: 94111
                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: Two Embarcadero
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Application US/09843676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chapman, Karen B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nakamura,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ingner, Joachim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Thomas R
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Pred. No.
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US-09-764-869-729
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US-09-864-761-41097
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                                     CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR FILING DATE: 2000-10-04
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APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC007
                                                                                                                                                                                                                                                                                                                                                                                                   Patent No. US20020048763A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
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Patent No. US20020061521A1
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                                                                                                                                                                                                                                                    APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FO
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aeomica-X-1
                                                                                                                                                                                                                                                                                                                                      APPLICANT: Penn, Sharron G. APPLICANT: Rank, David R. APPLICANT: Hanzel, David K.
                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/764,869
CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Prior application data removed - refer to PALM or NUMBER OF SEQ ID NOS: 2442
PRIOR APPLICATION NUMBER: US 60/236,359 PRIOR FILING DATE: 2000-09-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 1
TYPE: PRT
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SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown:
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les 6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear MOLECULE TYPE: peptid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEFAX: (415) 576-0300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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100.0%; Pred. No.
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100.0%; Pred. No.
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5. 11;
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2001-01-30

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FEATURE:

OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3.8

OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 5.0

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.7

OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 5.6

OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.6

OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 5.8

OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.6

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.6

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.6

OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.8

US-09-864-761-41097
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US-09-925-299-1319
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                                                                                                                 PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1556
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins
FILE REFERENCE: PA102
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PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 41997
LENGTH: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1319, Application US/09925299 Patent No. US20020055627A1
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Matches 6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/925,299
CURRENT FILING DATE: 2001-08-10
LENGTH: 28
TYPE: PRT
ORGANISM: Homo sapiens
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ICR FILING DATE: 2001-01-30
ICR FILING DATE: 2001-01-30
ICR APPLICATION NUMBER: PCT/USO1/00665
ICR FILING DATE: 2001-01-30
ICR FILING DATE: 2001-01-30
ICR FILING DATE: 2001-01-30
ICR FILING DATE: 2001-01-30
ICR APPLICATION NUMBER: PCT/USO1/00663
ICR APPLICATION NUMBER: PCT/USO1/00662
ICR APPLICATION NUMBER: PCT/USO1/00661
ICR FILING DATE: 2001-01-30
ICR APPLICATION NUMBER: PCT/USO1/00670
ICR APPLICATION NUMBER: US 09/608, 408
ICR A
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Pred. No.
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o. 15;
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OTHER INFORMATION: X
NAME/KEY: SITE
LOCATION: (28)
OTHER INFORMATION: X
US-09-925-299-1319
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US-09-071-838-189
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                                                                                                                            US-09-071-838-189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 189, Application US/09071838 Patent No. US20020152501A1
                                                           Query Match
Best Local Similarity
Matches 6; Conserv
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Best Local Similarity
Matches 6; Conserv
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                                                                                                                                                                                                                       TELEFAX: (415) 576-0300 INFORMATION FOR SEQ ID NO: :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: NAME/KEY: SITE LOCATION: (23)
                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPATING SYSTEM: PC-DOS/MS-DOS
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LOCATION: (17)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                   NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 02:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,838
FILING DATE: 01-MAY-1998
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
                                                                                                                                         TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: pepi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Goldberg, Robert B.
TITLE OF INVENTION: Nucleic Acids That Control Seed
TITLE OF INVENTION: Fruit Development in Plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
48 TEGKKK 53
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1 TEGKKK 6
                                                                                                                                                                                   LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
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                                                                                                                                                                                        29 amino acids
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                                                                                                                                        peptide
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100.0%; Pr
                                                           10.2%; Score 6; 1
100.0%; Pred. No.
tive 0; Mismatc
                                                                                                                                                                                                                                                                                        023070-086100US
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Pred. No.
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RESULT 14 US-09-764-846-248

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Sequence 248, Application US/09764846

Patent No. US20020102638A1

GENERAL INFORMATION:
APPLICANT: ROSen et al.

ITILE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PT212

CURRENT APPLICATION NUMBER: US/09/764,846

CURRENT FILING DATE: 2001-01-17

Prior application data removed - consult PALM or file wrapper NUMBER OF SEO ID NOS: 348

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 248

LENGTH: 31

TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA102
CURRENT APPLICATION NUMBER: U$/09/925,299
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PRIOR FILING DATE: 2000-03-08
PRIOR FILING DATE: 12000-03-08
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1556
SOFTWARE: PAtentin Ver. 2.0
SEQ ID NO 1474
LENGTH: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ş
                                                                                                                                                              ; NAME/KEY: SITE LOCATION: (31)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids US-09-925-299-1474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; FEATURE:
; NAME/KEY: SITE
; LOCATION: (31)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-764-846-248
         В
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                                                                                     Matches
                                                                                                       Query Match
Best Local :
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Best Local 9
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                                                                                                                                                                                                                          NAME/KEY: SITE LOCATION: (30)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                PEATURE:
NAME/KP: SITE
LOCATION: (25)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Homo sapiens
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|||||
5 EKKKKK 10
                             23 EKKKKK 28
                                                                                    Local Similarity nes 6; Conservat
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17 EKKKKK 22
                                                                                     Conservative
                                                                                                   10.2%; Score 6; 1
100.0%; Pred. No.
                                                                                     0;
                                                                                     Mismatches
                                                                                                       DB 10;
Wo. 19;
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                                                                                                                       Length 32;
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                                                                                  Gaps
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Search completed: January Job time : 10 secs 9, 2003, 12:34:21

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9, 2003, 12:29:54; Search time 15 Seconds (without alignments) 279.052 Million cell updates/sec
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59
1 KVHGSLARAGKVRGQTPKVA.....RRFVNVVPTFGKKKGPNANS
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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.
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                                                                      OM protein - protein search, using sw model
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Gapop 60.0 , Gapext 60.0
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Perfect score:
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Post-processing: Listing first 45 summaries

length: 0 length: 200000000

Minimum DB seq Maximum DB seq

Database :

/cgn²_6/ptodata/2/paa/PCT_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/NG06_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/USO7_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/USO9_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/USO9_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/USO9_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/USO9_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/USO0_NEW_COMB.pep:*/cgn2_6/ptodata/2/paa/USO0_NEW_COMB.pep:*/ Pending_Patents_AA_New:* 5: .. 7

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	565	Sequence 1241/, A Sequence 68, Appl	539,	320,	320,	2, Ap	636	532		Sequence 3167, Ap		Sequence 18862, A					982,	Sequence 5391, Ap	Sequence 5391,	Sequence 12896	Sequence 12328	Sequence 84632, A	8463	Sequence 8463	Sequence 84633, A
ΠD	US-09-513-999C-5650	US-10-203-138A-1241/ US-10-302-279-68	0	09-721-456	US-10-325-810-320	US-09-661-669A-2	- 9990	US-09-513-999C-5320	PCT-US02-32727-3167	US-10-057-498-3167	PCT-US02-32727-18862	US-10-057-498-18862	US-09-724-676-60906	-724-	US-09-724-676-90284	US-09-724-676A-90284	US-10-209-582-982	a	US-10-057-498-5391	US-10-203-138A-12896	-10-2	-09-724-676-8463	-09-724-	-09-724-	US-09-724-676A-84633
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% Query Match	54.2	11.9		10.2		10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	٠	10.2	•	10.2
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APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Rank, David R.
APPLICANT: Rank, David R.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FO
TITLE OF INVENTION: ANALYSIS OF GENE EXPRESSION IN BT 474
FILE REPERENCE: PB 0004 who 8
CURRENT APPLICATION NUMBER: US/10/203,138A
CURRENT FILING DATE: 2002-08-02
PRIOR APPLICATION NUMBER: US 60/180,312

11110444, 101744, 101744, 101744, 101744, 101744, 101744, 101744, 101744, 10174, 101		o o		.; 0	
Sequence 20914, Sequence 20914, Sequence 20914, Sequence 20917, Sequence 29917, Sequence 1519, Sequence 2055, Sequence 2055, Sequence 2059, Sequence 2059, Sequence 2059, Sequence 2059, Sequence 84631, Seque		uman Protein		30; s 0; Gaps	
91 6 US-10-203-138A-11211 94 1 PCT-US02-32727-00914 97 1 CT-US02-32727-14364 97 1 PCT-US02-32727-14364 97 1 PCT-US02-32727-29917 99 6 US-10-057-498-14364 99 6 US-10-057-498-14364 101 5 US-10-203-138A-15139 107 6 US-10-264-237-1659 114 6 US-10-264-237-1659 116 6 US-10-264-237-1699 117 6 US-10-264-237-1209 118 5 US-09-513-999C-7941 131 5 US-09-513-999C-7942 132 5 US-09-724-676-84631 133 5 US-09-724-676-84631	ALIGNMENTS	ULT 1 09-513-999C-5650 equence 5650, Application US/09513999C ENDERAL INNORMATION: APPLICANT: Dumas Milne Edwards, J.B. APPLICANT: Dunes Milne Edwards, J.B. APPLICANT: Dunes Milne Edwards, J.B. APPLICANT: Dunelert, A. TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human CURRENT APPLICATION NUMBER: US/09/513,999C CURRENT FILING DATE: 1999-02-26 NUMBER OF SEQ ID NOS: 36681 SOFTWARE: Patent.pm EQ ID NO 5650 LEWATH: 130 TYPE: PRT ORGANISM: Homo sapiens	aa=Lys or Asn	tch 54.2%; Score 32; DB 5; Length 130 al Similarity 100.0%; Pred. No. 6.5e-26; 32; Conservative 0; Mismatches 0; Indels KVHGSLARAGKVRGQTPKVARQEKKKKTGRA 32	SULT 2 10-203-138A-12417 Sequence 12417, Application US/10203138A GENERAL INFORMATION: APPLICANT: Molecular Dynamics, Inc.
		ESULT 1 S-09-513-999C-5650 Sequence 5650, Application US/09 GENERAL INFORMATION: APPLICANT: Dunas Milne Edwards, APPLICANT: Duclert, A. APPLICANT: Glordano, J.Y. TITLE OF INVENTION: Expressed S. FILE REFERENCE: 59-U82.REG CURRENT APPLICATION NUMBER: US/ CURRENT PILING DATE: 1999-02-26 PRIOR FILING DATE: 1999-02-26 PRIOR FILING DATE: 1999-02-26 NUMBER OF SEQ ID NOS: 36681 SOFTWARE: PALENT.PM SEQ ID NO 5650 LENGTH: 130 TYPE: PRT ORGANISM: Homo Saplens	FEATURE: NAME/KEY: UNSURE LOCATION: 107 OTHER INFORMATION: Xaa-Lys	tch 32; Conservative KVHGSLARAGKVRGGTPKV	ULT 2 10-203-138A-12417 equence 12417, Application US/1020 ENERAL INFORMATION: ENERT INFORMATION: APPLICANT: Molecular Dynamics, Inc
22222 22222 22222 2222 2222 2222 2222 2222		RESULT 1 US-09-513-9990 Sequence 565 GENERAL INF APPLICANT: APPLICANT: APPLICANT: TILLE OF II FILE REFER CURRENT APP CURRENT FII PRIOR FILI PRIOR FILI NUMBER OF SOFTWARE: SOFTWARE: LENGTH: 1 TYPE: PRI TYPE: CHORENT FII PRIOR FILI PRIOR FILI PRIOR FILI PRIOR FILI TYPE: CHORTH: 1 SEQ ID NO 55 LENGTH: 1 TYPE: PRI TYPE: PRI TYPE: PRI TYPE: PRI TYPE: PRI TYPE: PRI CHORTH: 1	; FEATURE: ; NAME/KEY: ; LOCATION: ; OTHER INF US-09-513-9999	Query Match Best Local Matches 3 Qy 1 KVH Db 75 KVH	RESULT 2 US-10-203-13 ; Sequence 1 ; GENERAL IN ; APPLICANT

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Gaps
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GENERAL IN CYGATALOW.

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PMO09CIN
CURRENT APPLICATION NUMBER: US/10/209,582

CURRENT FILING DATE: 2002-08-01

PRIOR APPLICATION NUMBER: 09/758,461

PRIOR APPLICATION NUMBER: 09/758,461

PRIOR APPLICATION NUMBER: 09/758,61

PRIOR PELING DATE: 2000-01-31

PRIOR FILING DATE: 2000-01-31

PRIOR SEQ ID NOS: 1030

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 539

LENGTH: 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                  NAME: Hyman, Laurence J.
REGISTRATION NUMBER: 35, 551
REFERENCE/DOCKET NUMBER: 015280-278200US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
THEFFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 68:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11.9%; Score 7; DB 6; 100.0%; Pred. No. 4.1; iive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 11.9%; Score 7; DB 6; Best Local Similarity 100.0%; Pred. No. 3.7; Matches 7; Conservative 0; Mismatches
                                                                                FILING DATE: 21-MAY-1996
APPLICATION NUMBER: AU P00363
FILING DATE: 07-JUN-1996
APPLICATION NUMBER: US 60/019,765
FILING DATE: 14-JUN-1996
ATTORNEY/AGENT INFORMATION:
            APPLICATION NUMBER: US 60/017,906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 68:
US-10-302-279-68
                                    FILING DATE: 17-MAY-1996
APPLICATION NUMBER: AU PO0011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 320, Application US/09721456
GENERAL INFORMATION:
APPLICANT: Cech, Thomas R.
Lingner, Joachim
Nakamura, Toru
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 4
US-10-209-582-539
Sequence 539, Application US/10209582
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 81 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 11.99
Best Local Similarity 100.(
Matches 7; Conservative
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; ORGANISM: Homo sapiens
US-10-209-582-539
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US-09-721-456-320
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Micking, Carol
Christiansen, Jeffrey
Laphiropoulos, Peter G.
Gailani, Mae R.
Shanley, Susan Mary
Chidambaram, Abirami
Vorechovsky, Igor
Holmberg-Lindstrom, Erika
TITLE OF INVENTION: A Basal Cell Carcinoma Tumor Suppressor Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: EST_HUMAN HIT: BF347807.1, EVALUE 6.00e-47 US-10-203-138A-12417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 47.5%; Score 28; DB 6; Length 118; Best Local Similarity 100.0%; Pred. No. 8.5e-22; Matches 28; Conservative 0; Mismatches 0; Indels
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PALENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/302,279
FILING DATE: 22-Nov-2002
CLASSIFICATION: <UNKNOWN>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
PRIOR FILING DATE: 04 February 2000 (04.02.00)
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 26 May 2000 (26.05.00)
PRIOR FILING DATE: 36 May 2000 (26.05.00)
PRIOR PELING DATE: 03 August 2000 (03.08.00)
PRIOR FILING DATE: 03 August 2000 (03.08.00)
PRIOR FILING DATE: 03 October 2000 (03.10.00)
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 27 September 2000 (27.09.00)
PRIOR FILING DATE: 21 September 2000 (27.09.00)
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 30 June 2000 (30.06.00)
NUMBER OF SEQ ID NOS: 15438
SOFWWARE: Molecular Dynamics Sequence Listing Engine
SEQ ID NO 12417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
OTHER INFORMATION: MAP TO AC009704.2
FEATURE:
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 81
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FILING DATE: 16-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 KVHGSLARAGKVRGQTPKVAKQEKKKKK 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 68, Application US/10302279
GENERAL INFORMATION:
APPLICANT: Dean, Michael Carlton
Hahn, Heldi Eve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: USA
ZIP: 94111-3834
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Homo saptens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION:
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COMPUTER: LEDAY OLSA
COMPUTER: LEDAY OLSA
SOFTWARE: PATENTIN Release #1.0, Version #1.30
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/325,810
FILING DATE: 20-Dec-2002
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/09/402,181
FILING DATE: 10-Sep-1997
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-CT-1996
APPLICATION NUMBER: US 08/844,419
FILING DATE: 10-Sep-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 10-Sep-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 10-APR-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
APPLICATION NUMBER: US 08/851,312
                                                                                                                                                                                        Andrews, William H.
TITLE OF INVENTION: Human Telomerase Catalytic Subunit
NUMBER OF SEQUENCES: 633
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                           ADDRESSEE: Townsend and Townsend and Crew LLP STREET: Two Embarcadero Center, Eighth Floor CITY: San Francisco CATTE: California COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 14-AUG-1997
APPLICATION NUMBER: US 08/912,951
FILING DATE: 14-AUG-1997
APPLICATION NUMBER: US 08/915,503
APPLICATION NUMBER: WO PCT/US97/17885
FILING DATE: 01-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Ausenhus, Scott L.
REGISTRATION NOMBER: 42,271
REFERENCE/DOCKET NUMBER: 01:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
Sequence 320, Application US/10325810
GENERAL INFORMATION:
APPLICANT: Cech, Thomas R.
Lingner, Joachim
Nakamura, Toru
Chapman, Karen B.
                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (415) 576-0300 INFORMATION FOR SEQ ID NO: 320:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 16 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acid
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                    Harley, Calvin B.
Andrews, William H.
Andrews, William H.
NUMBER OF SEQUENCES: 727
CORRESPONDENCE ADDRESS:
STREET: Two Embarcadero Center, Eighth Floor CITY: San Francisco
STATE: California
CONTWIND.
                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPBY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/721,456
FILING DATE: 22-NOV-2000
CLASSIFICATION: <UNknown>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 08/834,030
FILING DATE: 09-NAY-1997
APPLICATION NUMBER: US 08/911,312
FILING DATE: 14-A0G-1997
APPLICATION NUMBER: US 08/912,951
FILING DATE: 14-A0G-1997
APPLICATION NUMBER: US 08/912,951
FILING DATE: 14-A0G-1997
APPLICATION NUMBER: WO PCT/US97/17618
FILING DATE: 01-OCT-1997
APPLICATION NUMBER: WO PCT/US97/17618
FILING DATE: 01-OCT-1997
ATORNEY/AGENT INFORMATION:
NAME: APPLE, RANGOLPH TEACH
REFERENCE/DOCKET NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-002610US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ő
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APPLICATION NUMBER: US/08/974,549A
FILING DATE: 19.NOV-1997
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-0CT-1996
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 5;
5. 9.4;
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100.0%; Pred. No. 9.4
tive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
STRANDEDNESS: <Unknown>
     Chapman, Karen B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: 320: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide
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Best Local Similarity 100.C
Matches 6; Conservative
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8 EKKKKK 13
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                                                                                         Query Match 10.2%; Score 6; DB 6; Best Local Similarity 100.0%; Pred. No. 9.4; Matches 6; Conservative 0; Mismatches
    ; TOPOLOGY: linear; MOLECULE TYPE: peptide; SEQUENCE DESCRIPTION: SEQ ID NO: 320: US-10-325-810-320
STRANDEDNESS: <Unknown>
                                                                                                                                                      23 EKKKKK 28
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EKKKKK 13
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RESULT 6 US-10-325-810-320

015389-002620US

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APPLICANT: Carter, Darrick
APPLICANT: Barth, Brenda
APPLICANT: Barth, Brenda
APPLICANT: Douglass, John
TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acne
FILE REFERENCE: 210121, 514C1
CURRENT APPLICATION NUMBER: PCT/US02/32727
CURRENT FILLING DATE: 2002-10-11
NUMBER OF SEQ ID NOS: 30992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 3167, Application US/10057498
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Mitcham, Jennifer
APPLICANT: Skeaky, Yasir
APPLICANT: Persing, David
TITLE OF INFUNITION: Compositions and Methods for the Therapy and Diagnosis of Acne
FILE REFERENCE: 210121.514
CURRENT APPLICATION NUMBER: US/10/057,498
            APPLICANT: Giordano, J.Y.

TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.

FILE REFERENCE: 59.022.REG

CURRENT APPLICATION NUMBER: US/09/513,999C

CURRENT FILING DATE: 2000-02-24

PRIOR PILING DATE: 1999-02-26

NUMBER OF SEQ ID NOS: 36681

SOFTWARE: Patent.pm

SEQ ID NO 5320

LENGTH: 63
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100.0%; Pred. No. 34;
iive 0; Mismatches
                                                                                                                                                                                                                                                                                                                             DB 5;
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Best Local Similarity 100.0%; Pred. No. 32;
Matches 6; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3167, Application PC/TUS0232727 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Maisonneuve, Jean Francois
Zhang, Yanni
Wang, Siging
Jen, Shyian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Mitcham, Jennifer
APPLICANT: Skeiky, Yasir
APPLICANT: Persing, David
APPLICANT: Bhatia, Ajay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 10.2
Best Local Similarity 100.
Matches 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Benson, Darin
Jones, Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Propioni acnes
PCT-US02-32727-3167
                                                                                                                                                                                                                                                           US-09-513-999C-5320
Duclert, A.
                                                                                                                                                                                                                                                                                                                                                                                                            23 EKKKKK 28
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47 EKKKKK 52
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|3 GSLARA 18
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LENGTH: 66
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APPLICANT:
APPLICANT:
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APPLICANT:
APPLICANT:
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GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Glordano, J.Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
FILE REFERENCE: 59.02.REC
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 6360
LENGTH: 55
                                            Sequence 2, Application US/09661669A
GENERAL INFORMATION:
APPLICANT: Ferullo. Jean-Marc
APPLICANT: Ferullo. Jean-Marc
APPLICANT: For Invertion:
TITLE OF INVENTION: Hydro-Phenyl Pyruvate Dioxygenase Fused to a Peptide
TITLE OF INVENTION: Signal, the DNA Sequence and Obtaining Plants
TITLE OF INVENTION: Signal, the DNA Sequence and Obtaining Plants
TITLE OF INVENTION: CONTAINING SUCH gene, Tolerant to Herbicides
CURRENT PAPLICANTION NUMBER: US/09/661,669A
CURRENT FILING DATE: 2001-05-18
NUMBER OF SEQ ID NOS: 8
SSETURE REPERTION NUMBER: Patentin Ver. 2.0
LENGTH: 40
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100.0%; Pred. No. 21;
tive 0; Mismatches
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100.0%; Pred. No. 2...
... 0; Mismatches
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3.09-513-99C-5320
Sequence 5920, Application US/09513999C
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Xaa-Leu or Pro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Xaa-Glu or Lys US-09-513-999C-6360
                                                                                                                                                                                                                                                                                                                                            ; TYPE: PRT
; ORGANISM: synthetic construct
US-09-661-669A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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Matches 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
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NAME/KEY: UNSURE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23 EKKKKK 28
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31 EKKKKK 36
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                                  US-09-661-669A-2
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    Length 75;
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GENERAL INFORMATION:
APPLICANT: Compugen LTD
TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676A
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: Patentin version 3.2
SEQ ID NO 60906
LENGTH: 78
                                                                                                                                                                                                               Sequence 60905. Application US/09724676
GENERAL INFORMATION:
APPLICANT: Compugen LTD
TITLE OF INFORMION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676
CURRENT FILIG DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOGTWARE: Patentin version 3.2
SEQ ID NO 60906
LENGTH: 78
10.2%; Score 6; DB 6;
100.0%; Pred. No. 38;
ive 0; Mismatches
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100.0%; Pred. No. 39;
tive 0; Mismatches
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  Query Match 10.2
Best Local Similarity 100.
Matches 6; Conservative
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Best Local Similarity 100.
Matches 6; Conservative
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US-09-724-676A-60906
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US-09-724-676A-60906
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38 VHGSLA 43
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APPLICANT: MITCHAM, Yeast
TYTLE OF INVENTION:
TITLE REFERENCE: 210121.514
CURRENT APLICATION NUMBER: US/10/057,498
CURRENT APPLICATION NUMBER: US/10/057,498
CURRENT FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 29212
SEQ ID NO 18862
LENGTH: 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Carter, Darrick
APPLICANT: Barch, Brenda
APPLICANT: Barch, Brenda
APPLICANT: Barch, Brenda
APPLICANT: Douglass, John
TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acnes
FILE REPERENCE: 210121.51461
CURRENT APPLICATION NUMBER: PCT/US02/32727
CURRENT FILING DATE: 2002-10-11
NUMBER OF SEQ ID NOS: 30992
LENGTH: 75
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10.2%; Score 6; DB 1; Length 75;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 6; Conservative 0; Mismatches 0; Indels
                                                                                                                                                            Length 66;
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GENERAL INFORMATION:
APPLICANT: Mitcham, Jennifer
APPLICANT: Skeiky, Yasir
APPLICANT: Persing, David
APPLICANT: Bhatia, Ajay
APPLICANT: Malsonneuve, Jean Francois
  CURRENT FILING DATE: 2001-04-20 NUMBER OF SEQ ID NOS: 29212 LENGTH: 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lodes, Michael
Benson, Darin
Jones, Robert
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Wang, Siqing
Jen, Shyian
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PCT-US02-32727-18862
                                                                                                ORGANISM: Propioni acnes US-10-057-498-3167
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38 VHGSLA 43
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Sequence 1, Appli
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59
1 KVHGSLARAGKVRGQTPKVA.....RRFVNVVPTFGKKKGPNANS
                                                                                                                                             January 9, 2003, 12:29:39 ; Search time 143 Seconds
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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.
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US-09-424-815C-1
US-09-732-210-1596
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Gapop 60.0 , Gapext 60.0
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5-24373 Sequence 24373 3-24153 Sequence 24153 3-24373 Sequence 24153 9-3540 Sequence 3540, 8-3540 Sequence 3540, 7-25338 Sequence 25338 7-31129 Sequence 25338	7-100293 Sequence 100290 7-100290 Sequence 102300 9-1748 Sequence 1048, 9-1619 Sequence 619, 18-1748 Sequence 619, 18-1748 Sequence 619, 18-1288 Sequence 1248, 18-1288 Sequence 1288, 18-1744 Sequence 1288, 18-1744 Sequence 1288, 18-1744 Sequence 1344, 18-1744 Sequence 1344 Sequenc	1-994 Sequence 994 3-1744 Sequence 174 9-1284 Sequence 128 3-1284 Sequence 128 3-1284 Sequence 651 7-651 Sequence 651 7-1040 Sequence 678 1-57587 Sequence 5758 1-57587 Sequence 673 8-6739 Sequence 673	1-57589 Sequence 57589, 1-57879 Sequence 57879, 3-28387 Sequence 27879, Sequence 27837, 3-27520 Sequence 27520, 5-21805 Sequence 27520, 5-21805 Sequence 21805, 7-20446 Sequence 210446,
US-09-834-3 US-60-197-8 US-60-197-8 PCT-US01-185 US-09-791-5	US-09-791-5 US-09-791-5 US-09-791-5 US-09-874-0 US-09-875-1 US-09-875-1 US-09-760-4 US-10-216-5 US-10-216-5 US-10-216-5	US-09-928 US-10-216 US-10-216 US-60-340 US-60-340 US-60-340 US-60-340 US-60-340 US-60-340 US-60-340 US-10-10 US-10-106 US-10-106 US-10-106 US-10-106	PCT-US01-086 PCT-US01-086 PCT-US01-086 US-09-864-7 US-10-182-9 US-10-182-9 US-10-182-9
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ALIGNMENTS

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Sequence 1, Application US/09424815
GENERAL INFORMATION:
APPLICANT: Nibberling, Petrus Hendricus
APPLICANT: Hiberling, Petrus Hendricus
APPLICANT: Hiemstra, Pieter Sicco
APPLICANT: Van den Barrselaar, Maria Theodora
APPLICANT: Pauwels, Ernest Karl Jacob
APPLICANT: Peitsma, Rolf Ide Johannes
TITLE OF INVENTION: Antimicrobial Peptides Derived From Ubiquicidine
FILE REPERENCE: 702 991768
CURRENT APPLICATION NUMBER: PCT/NL98/00311
FRICA REPLICATION NUMBER: PCT/NL98/00311
FRICA APPLICATION NUMBER: R. 1006164
FRICA APPLICATION NUMBER: N. 1006164
FRICA APPLICATION NUMBER: N. 1006164
NUMBER OF SEQ ID NOS: 9
SOFTWARR: Microsoft Word 97 SR-2
SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Description of Unknown Organism: Mammalian
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Length 59;

Score 59; DB 18; Pred. No. 1.2e-46;

100.0%;

Query Match Best Local Similarity

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KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNANS 59
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Homo sapiens
US-60-169-340-1596
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Matches 59; Conserv
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Best Local Similarity
Matches 59; Conserv
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GENERAL INPORMATION:
APPLICANT: Nibberling, Petrus Hendricus
APPLICANT: Hiemstra, Pieter Sico.
APPLICANT: Henstra, Pieter Sico.
APPLICANT: Pauwels, Ernest Karl Jacob
APPLICANT: Pauwels, Ernest Karl Jacob
APPLICANT: Petuwels, Ernest Karl Jacob
FILE, REFERENCE: Nibberling et al.
CURRENT APPLICATION NUMBER: NZ/09/424,815E
CURRENT FILING DATE: 1998-05-29
PRIOR APPLICATION NUMBER: NZ 1006164
PRIOR APPLICATION NUMBER: NZ 1006164
PRIOR APPLICATION NUMBER: NZ 1006164
NUMBER OF SEQ ID NOS: 11-
SEQFWARE: Microsoft Word 97-SR-2
SEQFWARE: Microsoft Word 97-SR-2
SEQCID NOS: 11-
SEMONTH: AB
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.; OTHER INFORMATION: Description of Unknown Organism: Mammalian
US-09-424-815C-1
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100.0%; Pred. No. 1.2e-46;
11ve 0; Mismatches 0;
                                                                                                                                                                                                   Sequence 1, Application US/09424815C
GENERAL INFORMATION:
APPLICANT: Nubberling, Petrus Hendricus
APPLICANT: Hemstra, Pleter Sicco
APPLICANT: Van den Barrselaar, Maria Theodora
APPLICANT: Pauwels, Ernest Karl Jacob
APPLICANT: Peuwels, Ernest Karl Jacob
APPLICANT: Petram, Rolf Ide Johannes
TILE REFERENCE: Nibberling et al.
CURRENT APPLICANTION NUMBER: US/09/424,815C
CURRENT FILING DATE: 1998-05-19
PRIOR APPLICATION NUMBER: PCT/NL98/00311
PRIOR APPLICATION NUMBER: PCT/NL98/00311
PRIOR APPLICATION NUMBER: DG 106164
PRIOR APPLICATION NUMBER: NL 1006164
SROFTWARE MILKG DATE: 1997-05-29
SOFTWARE: MILKG DATE: 1997-05-29
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  0; Mismatches
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ORGANISM: Unknown Organism_
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Matches 59; Conservative
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Best Local Similarity
59;
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APPLICANT: Bunkers, Cindy A.
APPLICANT: Liang, Jihong
APPLICANT: Mittanck, Cindy A.
APPLICANT: Seale, Jeffrey W.
APPLICANT: Seale, Jeffrey W.
APPLICANT: Mu, Yonnie S.
TITLE OF INVENTION: Antifungal Ribosomal Proteins and Methods for Their Use FILE REPERENCE: 38-21(15036)
CURRENT FILLNG DATE: 1999-12-07
NUMBER OF SEO ID NOS: 1753
SEO ID NO 1596
                                                                                                                                                                                                            APPLICANT: Liang, Jihong
APPLICANT: Mittanck, Cindy A.
APPLICANT: Seale, Jeffrey W.
APPLICANT: Wu, Yonnie S.
TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
FILE REFRENCE: 38-21(15036)B
CURRENT APPLICATION NUMBER: US/09/732,210
CURRENT FILING DATE: 2000-12-07
PRIOR APPLICATION NUMBER: US 60/169,513
PRIOR FILING DATE: 1999-12-07
PRIOR FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 1753
SEQ ID NO 1996
LENGTH: 59
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1 KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNANS 59
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; Sequence 24153, Application US/09834366
; GENERAL INFORMATION:
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1 KVHGSLARAGKVRGQTPKVAKQEKKKKKTGRAKRRMQYNRRFVNVVPTFGKKKGPNANS 59
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Tanaka, Hiroaki
APPLICANT: Tanaka, Hiroaki
APPLICANT: Dumas Milne Edwards, Jean Baptiste
APPLICANT: Jobert, Severin
APPLICANT: Giordano, Jean-Yves
TITLE OF INVENTION: ESTS and Encoded Human Proteins.
FILE REFERENCE: 81.US.1-RO
CURRENT APPLICATION NUMBER: US/60/197,873
CURRENT FILING DATE: 2000-04-18
NUMBER OF SEQ ID NOS: 52153
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                                                                                                                                                                    ch 100.0%; Score 59; DB 27; 1 Similarity 100.0%; Pred. No. 1.3e-46; 59; Conservative 0; Mismatches 0;
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                                                                                                ; ORGANISM: Homo sapiens US-60-197-873-24153
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SEQ ID NO 24373
LENGTH: 63
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es 59; Conserv
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LENGTH: 66
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                                                                            TYPE: PRT
     SOFTWARE:
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               APPLICANT: Dumas Milne Edwards, Jean Baplister, Severin
APPLICANT: Jobert, Severin
APPLICANT: Glordano, Jean-Yves
TITLE OF INVENTION: ESTS and Encoded Human Proteins.
FILE REFERENCE: 81.US2.REG
CURRENT APPLICATION NUMBER: US/09/834,366
CURRENT FILING DATE: 2001.04-13
PRIOR ETLING DATE: 2000-04-18
NUMBER OF SEQ ID NOS: 52153
SOFTWARE: Patent.pm
SEQ ID NOS: 52153
SOFTWARE: Patent.pm
SEQ ID NOS: 52153
SOFTWARE: Patent.pm
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APPLICANT: Bejanin, Stephane; APPLICANT: Tanaka, Hiroaki
APPLICANT: Tanaka, Hiroaki
APPLICANT: Dumas Milne Edwards, Jean Baptiste
APPLICANT: Jobert, Severin
APPLICANT: Jobert, Severin
APPLICANT: Glordano, Jean-Yves
TITLE OF INVENTION: ESTS and Encoded Human Proteins.
FILE REFERENCE: 81.02.REC
CURRENT APPLICATION NUMBER: US/09/834,366
CURRENT FILING DATE: 2001-04-13
PRIOR FILING DATE: 2001-04-13
PRIOR FILING DATE: 2000-04-18
NUMBER OF SEQ ID NOS: 52153
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APPLICANT: Tanaka, Hiroaki
APPLICANT: Tanaka, Hiroaki
APPLICANT: Dumas Milne Edwards, Jean Baptiste
APPLICANT: Jobert, Severin
APPLICANT: Glordano, Jean-Yves
FITLE OF INVENTION: ESTS and Encoded Human Proteins.
FILE REFERENCE: 81.US1.PRO
CURRENT APPLICATION UNMBER: US/60/197,873
CURRENT FILING DATE: 2000-04-18
NUMBER OF SEO ID NOS: 52153
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100.0%; Score 59; DB 22;
Best Local Similarity 100.0%; Pred. No. 1.3e-46;
Matches 59; Conservative 0; Mismatches 0;
Tanaka, Hiroaki
Dumas Milne Edwards, Jean Baptiste
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                                                                                                                                                                                                                                                                                                                                                                ; ORGANISM; Homo sapiens
US-09-834-366-24153
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US-09-834-366-24373
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LENGTH: 63
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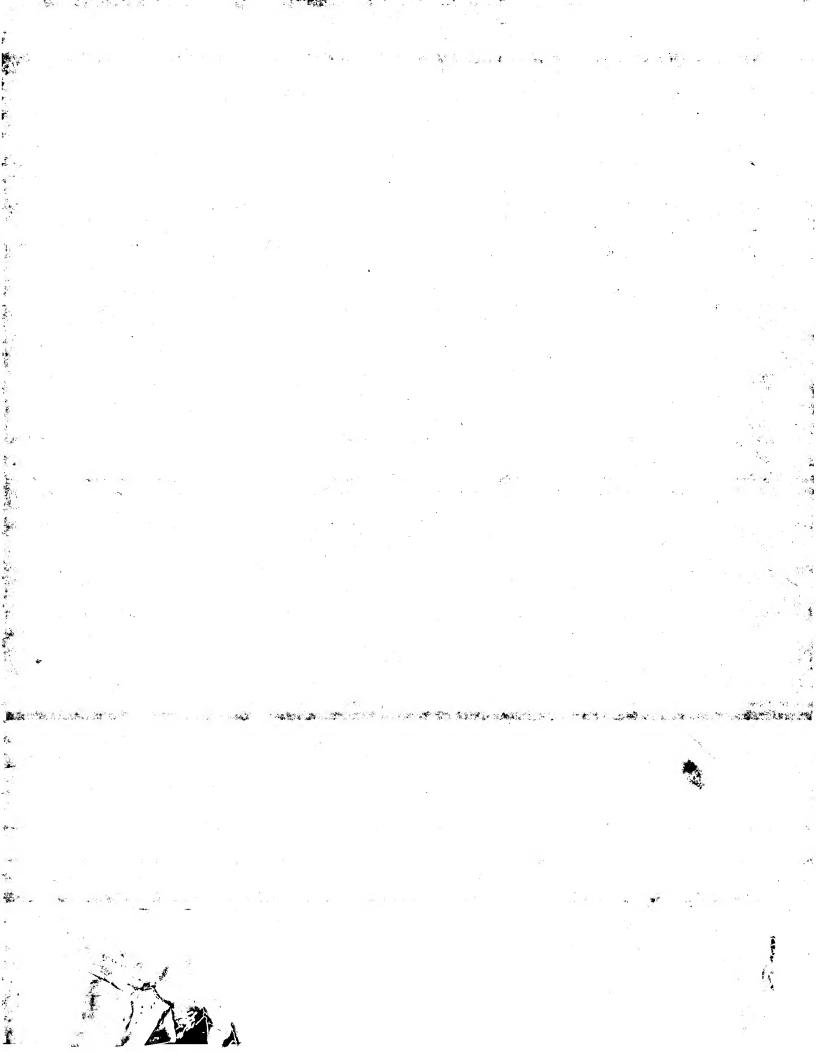
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APPLICANT: Bionomix, Inc.
APPLICANT: Bionomix, Inc.
APPLICANT: Dabe, Derek
APPLICANT: Dabe, Derek
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFRENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: Patentin version 3.0
SEQ ID NO 38099
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APPLICANT: Debe, Derek
APPLICANT: Denzer, Joseph
TITLE OF INVENTION: HERED DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REPERENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: PATENTIN VERSION 3.0
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                                                                                                                                             Length 133;
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100.0%; Pred. No. 2.5e-46;
ive 0; Mismatches 0;
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APPLICANT: Bionomix, Inc.
                                                                                                                                                                                                                                                                                                                                                                                       Sequence 38099, Application US/09791537 GENERAL INFORMATION:
SOFTWARE: PatentIn version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Cricetulus griseus US-09-791-537-38099
                                                                                                                                                  Query Match 100.0
Best Local Similarity 100.0
Matches 59; Conservative
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Matches 59; Conservative
                                                            TYPE: PRT
CORGANISM: Mus musculus
US-09-791-537-31129
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US-09-791-537-100293
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US-09-791-537-38099
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LENGTH: 133
                 SEQ ID NO 31129
LENGTH: 133
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GENERAL INFORMATION:
APPLICANT: Belonomix, Inc.
APPLICANT: Belonomix, Inc.
APPLICANT: Debe, Derek
APPLICANT: Debe, Derek
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: METHODS OF USE THEREOF
TITLE OF INVENTION: METHODS OF USE THEREOF
TITLE REFERENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
SOFTWARE PALEATION VERSION 3.0
SEQ ID NO 25338
LENGTH: 133
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GENERAL INFORMATION:
APPLICANT: Bionomix, Inc.
APPLICANT: Bobe, Derek
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: MTHREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: MTHREE DIMENSIONAL STRUCTURES OF CURENT APPLICATION UMBER: US/09/791,537
CURRENT FALLING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
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                                                                                              APPLICANT: Birse et al.

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PAI33P1
CURRENT APPLICATION NUMBER: US/10/264,049
CURRENT FILING DATE: 2002-10-04
PRIOR APPLICATION NUMBER: PCT/US01/18569
PRIOR APPLICATION NUMBER: PCT/US01/18569
PRIOR FILING DATE: 2001-06-07
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 4360
SOSTWARE: PALCHLIN Ver. 3.1
SEQ ID NO 3540
LENGTH: 46
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               Local Similarity 100.
nes 59; Conservative
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; ORGANISM Homo sapiens
US-10-264-049-3540
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Matches 59; Conservat
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US-09-791-537-25338
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A;Molecule type: DNA
A;Residues: 1-133 <KASS-
A;Cross-references: EMBL:X65921; NID:g31304; PIDN:CAA46714.1; PID:g31305
A;Cross-references: EMBL:X65921; NID:g31304; PIDN:CAA46714.1; PID:g31305
R;Michiels, L.; Van der Rauwelaert, E.; Van Hasselt, F.; Kas, K.; Merregioncogene 8, 2537-2546, 1993
Oncogene 8, 2537-2546, 1993
A;Title: fau cDNA encodes a ubiquitin-like-S30 fusion protein and is exp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: protein
A; Molecule type: protein
A; Residues: 75-92 <CL2>
A; Note: the proteins are designated as ubiquitin-like protein and ribosomal protein S
A; Note: the proteins are designated as ubiquitin-like protein S30; ubiquitin homology
C; Superfamily: ubiquitin-like protein / rat ribosomal protein S30; ubiquitin homology
C; Keywords: protein biosynthesis; ribosoma
F;1-74/product: ubiquitin-like protein #status predicted <UBI>
F;1-74/product: ubiquitin homology <UBH>
F;1-74/product: ribosomal protein S30 #status experimental <RIB>
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J. Biol. Chem. 268, 17967-17974, 1993
A;Title: The carboxyl extension of a ubiquitin-like protein is rat ribosomal A;Reference number: A47416; MUID:93352612; PMID:8394356
                                                                                                                                                                                                                                                                      C;Species: Homo sapiens (man)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 24-Sep-1999
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 24-Sep-1999
C;Accession: JC1278; I37387; S68911; S21449; S21450
R;Ras, K:, Michiels, L:, Merregaert, J.
Blochem. Biophys. Res. Commun. 187, 927-933, 1992
A;Title: Genomic structure and expression of the human fau gene: Encoding t.
A;Reference number: JC1278; MUID:92412144; PMID:1326960
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A;Residues: 1-133 <OLY>
A;Cross-references: EMBL:X62671; NID:g407165; PIDN:CAA44545.1; PID:g57566
A;Accession: B47416
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                             ubiquitin-like-S30 fusion protein and is expressed as
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Pred. No. 5.2e-52;
; Mismatches 0;
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Genomics 25, 291-294, 1995
A;Title: The mouse Fau gene: genomic structure, chromosomal A;Reference number: A56532; MUID:95293388; PMID:7774934
A;Accession: A56532
A;Status: preliminary
                                                                                                                                                                                               A;Cross-references: GB:D26610; NID:g1060926; C;GenetLcs: A;Gene: fau A;Introns: 25/3; 74/1; 92/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A:Cross-references: GB:L33715; NID:g497610; PIDN:AAA91564.1; PID:g497611 A:Note: authors translated the codon GTT for residue 119 as Arg, and GTC R:Nakamura, M.; Xavier, R.M.; Tsunement, T.; Tanigawa, Y. Proc. Natl. Acad. Sci. U.S.A. 92, 3463-3467, 1995 A;Title: Molecular cloning and characterization of a cDNA encoding monocl A:Reference number: 159368; MUID:95241522; PMID:7724584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Reference number: I37387; MUID:93368957; PMID:8395683
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C;Species: Mus musculus (house mouse)
C;Date: 12-Aug-1996 #sequence_revision 12-Aug-1996 #text_change 24-Sep-1999
C;Accession: I48346; A56532; I59368; S21452
C;Accession: I48346; A56532; I59368; A56532; A56532
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C;Superfamily: unassigned ubiquitin-related
C;Keywords: protein blosynthesis; ribosome
F;1-74/Domain: ubiquitin homology <UBHS
F;75-133/Product: ribosomal protein S30, cyt
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R:Vladimirov, S.N.; Ivanov, A.V.; Karpova, G.G.; Musolyamov, A.K.; Egorov, T.A.; Thiede, Eur. J. Biochem. 239, 144-149, 1996
Eur. J. Biochem. 239, 144-149, 1996
A:Title: Characterization of the human small-ribosomal-subunit proteins by N-terminal an A:Reference number: S68911; MUID:96305378; PMID:8706699
A:Accession: S68911
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                                                                                                                                                                                                                                                                                                                                           A; Molecule type: mRNA
A; Residues: 1-133 <RE2>
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A; Residues: 1-133 <CAS>
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A; Residues: 1-133 < RES>
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A; Residues: 1-133 <RE
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1-74/Domain:
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Local Similarity
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              DB 2;
5.2e-52;
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                                            SEB4B protein - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 06-reb-1995 #sequence_revision
C;Accession: S38383
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A; Gene: AT49293;
A; Map position:
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A;Accession: H85342
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A; Residues: 1-62 <STO>
                                                                                                                                                                                                                     R; anonymous, The European Union Arabidopsis Genome Sequencing Consortium, The Cold Nature 402, 769-777, 1999
                                                                                                                                   A; Cross-references:
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                                                                                                                                    GB:NC_001268;
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24
                        22
                                               Score 22; DB; Pred. No. 4.3
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A;Map position: 2 C;Superfamily: yeast ribosomal protein S30 A;Status: preliminary A;Molecule type: DNA A;Residues: 1-68 <STO> A; Title: Sequence and analysis of chromosome 2 of the plant A; Reference number: A84420; MUID:20083487; PMID:10617197 A; Accession: F84580 R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fu M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M. C; Genetics A; Cross-references: 40S ribosomal protein S30 [imported] - Arabidopsis thallana C; Species: Arabidopsis thaliana (mouse-ear cress) C; Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_ch Nature 402, 761-768, Best Accession: F84580 Query Match : At2g19750 Local 9 1 KVHGSLARAGKVRGQTPKVAKQ KVHGSLARAGKVRGQTPKVAKQ Similarity Conservative GB:AE002093; 1999 37.3%; 100.0%; NID: g3687243; 30 22 0; Score 22; DB 2; I Pred. No. 4.7e-15; Mismatches PIDN: AAC62141.1; #text_change 17-May-2002 Length Arabidopsis GSPDB:GN00139 Fraser, C.M.; 0 Gaps Fujii, C.Y L.; Tallon, 0 Venter

A.; Terworst,

06-Feb-1995 #text_change 08-Sep-1997

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C.Accession: †15642
C.Accession: †15642
R;Geisel, C.; Stellyes, L.; Bradshaw, H.
submitted to the EMBL Data Library, March
submitted to the EMBL Data Library, March
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                                    A; Gene: PFB088:
C; Superfamily:
                                                                                                                                       A; Molecule type: DNA
A; Residues: 1-58 <GAR>
                                                                                                                                                                                            R:Gardner, M.J.; Tettelin, H.; Carucci, D.J.; Cummings, L.M.; Aravind, L.; Koonin, Pertea, M.; Salzberg, S.; Zhou, L.; Sutton, G.G.; Clayton, R.; White, O.; Smith, Science 282, 1126-1132, 1998
A:Title: Chromosome 2 sequence of the human malaria parasite Plasmodium falciparum. A;Reference number: A71600; MUID:99021743; PMID:9804551
A;Accession: A71604
                                                                                                                                                                                                                                                                                                                             ribosomal protein S30 PFB0885w - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 13-Nov-1998 #sequence_revision 13-Nov-1998 #text_change 13-Aug-1999
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A71604
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A;Introns: 27/3; 71/1
C;Superfamily: unassigned ubiquitin-related
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A; Cross-references: EMBL: X75315
                                                                                                A;Cross-references: GB:AE001422;
A;Experimental source: clone 3D7
                                                                                                                                                           A;Status: preliminary; nucleic acid sequence A;Molecule type: DNA
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A;Experimental source: strain Bristol N2; clone C26F1
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A; Accession: S38383
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ne EMBL Data Library, September 1993
A novel murine RRM-type protein and its human homolog
                                      yeast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative (
                                      ribosomal protein S30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22.0%;
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                                                                                                                  GB:AE001362; NID:g3845298; PIDN:AAC71966.1; PID:g384530
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; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 13;
Pred. No.
  Score 12;
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8.9e-06;
hes 0;
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  DB
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2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 130
Length 58;
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                                                                                                                                                                                                                                                                        Aravind, L.; Koonin, R.; White, O.; Smith,
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submitted to the Protein Sequence Database, Julv 1996
A;Reference number: S66685
A;Reference number: S66685
A;Reference number: S66685
A;Reference number: S66685
A;Ression: S67074
A;Molecule type: DNA
A;Cross-references: EMBL:Z75090; GSPDB:GN00015; MIPS:YOR182c; NID:g1420438; PIDN:CAA9
A;Cross-references: EMBL:Z75090; GSPDB:GN00015; MIPS:YOR182c; NID:g1420438; PIDN:CAA9
A;CenetLos: YS30B
A;GenetLos: YS30B
A;GenetLos: YS30B
A;GenetLos: YS30B
A;GenetLos: YS30B
A;GenetLos: YS30B
A;GenetLos: YS30B
A;Reference number: S70774; MUID:96278780; PMID:8662789
A;Reference number: S70774; MUID:96278780; PMID:8662789
A;Residues: 1-63 CBAK>
A;Cross-references: EMBL:U48700; NID:g1256752; PIDN:AAC49317.1; PID:g1256753
A;Cross-references: EMBL:U48700; NID:g1256752; PIDN:AAC49317.1; PID:g1256753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ribosomal protein s30 - fission yeast (Schizosaccharomyces pombe)
C;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 02-Jun-2000
C;Accession: T39834
                    A; Accession: S70774
A; Molecule type: protein
A; Residues: 2-63 <BA3>
                                                                                          A; Molecule type: mRNA
A; Residues: 1-63 <BAN>
A; Cross-references: EMBL: U48699;
A; Genetics: YS30A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ribosomal protein S30.e, cytosolic - yeast (Saccharomyces cerevisiae)
N;Alternate names: protein O4725; protein YLR287c-a; protein YOR182c
C;Species: Saccharomyces cerevisiae
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jul-2000
C;Accession: S67074; S70775; S70776; S70774
R;Hughes, B.; Pohl, T.M.
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A; Introns: 13/3; 56/3
C; Superfamily: yeast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Molecule type: DNA
A;Residues: 1-61 <LYND
A;Cross references: EMBL:AL021
A;Experimental source: strain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Lyne, M.; Rajandream, M.A.; Barrell, B.G.; Devlin, submitted to the EMBL Data Library, February 1998 A;Reference number: Z21884 A;Accession: T39834
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A; Residues: 2-63 <BC; Genetics: <YS30B>
                                                                                                                                                                                       A; Genetics: YS30A
A; Accession: S70776
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ce: strain 972h-;
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                                                                                                                   NID:g1256750;
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Pred. No.
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0; Mismatches 0;
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                                                                                                                      PIDN: AAC49316.1;
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SGD:RPS30B; MIPS:YOR182c

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A; Reference number: A9690
A; Accession: A97094
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-135 < KUR>
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A;Map position: 15R
A;Introns: 1/3
C;Genetics: <YS30A>
                                                                  A; Status: not compared with conceptual translation A; Molecule type: DNA A; Residues: 1-134 <LA1> C; Genetics: 1-134 <LA1> C; Genetics: A; Gene: hns C; Function: binds double-stranded DNA; influences A; Description: binds double-stranded DNA; influences C; Superfamily: DNA-binding; transcription regulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         uncharacterized protein, YJDF B. subtilis ortholog [imported] - Clostridium acetobutylic (Species: Clostridium acetobutylicum C:Species: Clostridium acetobutylicum C:Date: 14-Sep-2001 #sequence_revision 14-Sep-2001 #text_change 14-Sep-2001 C:Accession: A97094 R;Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee,
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A:Introns: 1/3
A:Introns: 1/3
C:Superfamily: yeast ribosomal protein S30.e
C:Keywords: cytosol; protein biosynthesis; ribosome
C:Keywords: cytosol; protein S30.e, cytosolic #status experimental <MAT>
F:2-63/Product: ribosomal protein S30.e, cytosolic #status experimental <MAT>
                                                                                                                                                                                                                                                                            R;la Teana, A.; Falconi, M.; Scarlato, V.; Lammi, M.; FEBS Lett. 244, 34-38, 1989
A;Title: Characterization of the structural genes for A;Reference number: S02775; MUID:89171270; PMID:249400
                                                                                                                                                                                                                                                                                                                                                             DNA-binding protein H-NS - Proteus vulgaris
C;Species: Proteus vulgaris
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 13-Sep-1998
C;Accession: S02776
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C;Genetics:
A;Gene: CAC1573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; I.; Dally, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.
J. Bacteriol. 183, 4823-4838, 2001
J. Bacteriol. 183, 4823-4838, 2001
A;Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium A;Reference number: A96900; MUID:21359325; PMID:21359325
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A97094
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A; Cross-references:
A; Map position: 12R
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Query Match
Best Local Similarity
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Best Local :
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nes 8; Conserv
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12; Conserv
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100.0%; Pr
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                11.9%;
100.0%;
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Pred. No.
                Score 7;
Pred. No.
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Pred. No.
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                DB 2;
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0.
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hes 0;
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ATCC824
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                                     Length 134;
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                                                                                                                  regulation
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            nucleoporin p62 homolog - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 27-Feb-1997 #sequence_revision 27-Feb-1997 #text_change 05-Nov-1999
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"hehes 7; Conserv
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A;Gene: At2g36610
A;Map position: 2
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                                                                                                                                                                                                                                                                                                                                                                                                                              R;Lin, X.; Kaul, S.;
M.; Koo, H.; Moffat,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   probable homeodomain transcription factor [Imported] - Arabidopsis thaliana (Species: Arabidopsis thaliana (mouse-ear cress) C:Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 02-Feb-2001 C:Accession: E84782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Gene: DR2179
A; Map position: 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Accession: B75305
R;White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
Science 286, 1571-1577, 1999
                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-199 <STO>
                                                                                                                                                                                                                                                                                                                                      A; Reference number: A84420; A; Accession: E84782
                                                                                                                                                                                                                                                                                                                                                       A; Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana A; Reference number: A84420; MUID:20083487; PMID:10617197
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-154 <WHI>
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C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999
RESULT 15
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                                                                                                                                                                                                                                                                                                                                                                                              Nature 402, 761-768, 1999
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C:Accession: 15223
R:Mang Z.O. Manal K.M.; Kim, K.H.
R:Mang Z.O. Manal K.M.; Kim, K.H.
Richter A.; Title: An unusual nucleoprin-related messenger ribonucleic acid is present in the ger A; Title: An unusual nucleoprin-related messenger ribonucleic acid is present in the ger A; Title: An unber: 13232; MID:95151924; PMID:7845178
A; Extension: Lindsay; translated from G9/EMB/DDSJ
A; Molceule type: mRMA
A; Metaldus: 1-15 CRES
A; Cross-references: G8:875997; NID:9913245; PIDN:ABB3384.1; PID:9913246
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RL19_TREPA
RS.25_HUMAN
RS.11_RICPR
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C 949689; 083203; 09M0E4;

P 01-FEB-1996 (Rel. 33, Created)

T 15-JUN-2002 (Rel. 41, Last sequence update)

T 15-JUN-2002 (Rel. 41, Last annotation update)

T 15-JUN-2002 (Rel. 41, Last annotation update)

E 40S ribosomal protein S30.

E 40S ribosomal protein S30.

IN (RPS30A OR AT2G19750 OR F6F22.22) AND

IN (RPS30B OR AT4G29390 OR F17A13.210) AND

IN (RPS30B OR AT4G29390 OR MIK19.12).

IN (RPS30C OR AT5G56670 OR MIK19.12).

S Arabidopsis thaliana (Mouse-ear cress).

E Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

C Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

C eurosids II; Brassicales; Brassicaceae; Arabidopsis.

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-I- MISCELLANEOUS: THIS RIBOSOMAL PROTEIN IS SYNTHESIZED AS A C-TERMINAL EXTENSION PROTEIN (CEP) OF A UBIQUITIN-LIKE PROTEIN.
                 SEQUENCE FROM N.A. STRAIN-cv. Columbia:
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MEDLINE-97244440; PubMed-9089280;
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Submitted (DEC-1995) t
                STRAIN-cv.
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3L; X65923; CAA46716.1; A

3L; X62671; CAA44545.1; A

3L; X65922; CAA46715.1; A

3L; X65922; CAA46715.1; A

3L; DA6610; BAA05655.1; A

3L; L33715; AAA91564.1; A

3L; AAA9376.1; A

3L; U72543; AAB52915.1; A

3L; U72543; AAB52915.1; A

3L; U72543; AAB52915.1; A
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59; Conservative
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zation of two retropseudogenes.";
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RA Vos P. Hohelsel J. Zimmermann W., Wedler H., Ridley P., Ra Langham S.-A., McCullagh B., Bilham L., Robben J., Vandenbussche F., Ra Van der Schueren J., Grymonprez B., Chuang Y.-J., Vandenbussche F., Ra Braeken M., Weltjens I., Voet M., Bastiaens I., Aert R., Defoor E., Ra Mocijnan P., Klein Lankhorst R., Rose M., Hauf J., Koetter P., Ra Mocijnan P., Klein Lankhorst R., Rose M., Hauf J., Koetter P., Ra Mocijnan P., Klein Lankhorst R., Rose M., Hauf J., Koetter P., Ra Mocijnan P., Klein Lankhorst R., Rose M., Hauf J., Koetter P., Ra Mocijnan P., Klein Lankhorst R., Rose M., Hauf J., Koetter P., Ra Mocijnan P., Klein Lankhorst R., Rose M., Hauf J., Koetter P., Ra Mocijnan P., Klein Lankhorst R., Rose M., Hauf J., Koetter P., Ra Mocijnan R., Rajandream M., Cualh M., Lamberth S., Van den Daele H., Ra Ra Kattett A., Rajandream M., Karafe M., Carlim M., Lachnard N., McLay K., Mayes R., Ra Pettett A., Rajandream M.A., Lyne M., Benes V., Rechmann S., Ra Rajandream M., Rartmann B., Granderath K., Dauner D., Herzl A., Vitale D., Liguori R., Piravandi E., Ra Massenet O., Quigley F., Clabauld G., Muendlein A., Felber R., Ra Massenet O., Quigley F., Clabauld G., Muendlein A., Felber R., Ra Gibbons T., Weber N., Vandenbol M., Bargues M., Terol J., Torres A., Ra Gibbons T., Weber N., Vandenbol M., Bargues M., Terol J., Torres A., Ra Gibbons T., Weber N., Vandenbol M., Bargues M., Terol J., Torres A., Ra Frishman D., Haase D., Lemcke K., Mewes H., W., Stocker S., Francs P., Bevann M., Wilson R.K., de la Bastide M., Haberman K., Ra Frishman D., Hasse D., Lemcke K., Mewes H., Strancs P., Bielke C., Ra Altonolu B., Schotl N., Schotz K., Huang E., Spiegel L., Ra Cacaria P., Bentley D., Fulton B., Miller N., Greco T., Kemp K., Ra Kramer J., Fulton L., Mardis E., Dante M., Pepin K., Hiller L., Ra Mab., Schothy N., Hasseyawa A., Haneed A., Lodhi M., Johnson A., Ra Sabby I.K., O'Shaughnessy A., Nordis M., Hoffman J., Till S., Schotls W., Hasseyawa A., Haneed A., Lodhi M., Johnson A., Chen E., Marca M., Martienssen R., McComble W. R.
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             Kotani
                                      MEDLINE=98403884; PubMed=9734815;
                                                                                 SEQUENCE
                                                                                                                                                 "Sequence and thaliana.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=20083488; PubMed=10617198; Mayer K.F.X., Schueller C., Wambut
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Rounsley S.D., Shea
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30-MAY-2000
30-MAY-2000
15-JUN-2002
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-I- SIMILARITY: BELONGS TO THE S30E FAMILY OF RIBOSOMAL PROTEINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
40s ribosomal protein S30.
FAU OR RPS30.
                                                                                                                                                                                                                                                                                Henrich T., Wittbrodt J.;

"An in situ hybridization screen for the rapid isolation of differentially expressed genes.";

Dev. Genes Evol. 210:28-33(2000).

-I- MISCELLANEOUS: THIS RIBOSOMAL PROTEIN IS SYNTHESIZED AS A C-TERMINAL EXTENSION PROTEIN (CEP) OF A UBIQUITIN-LIKE PROTEIN.

-I- SIMILARITY: BELONGS TO THE S30E FAMILY OF RIBOSOMAL PROTEINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oryzias latipes (Medaka fish) (Japanese ricefish).

Eukaryota; Metazoa; Chordata; Cranilata; Vertebrata; Eutleleostomi;

Actinopterygii; Meopterygii; Teleostei; Eutleleostei; Neoteleostei

Acanthomorpha; Acanthopterygii; Percomorpha; Atherinomorpha;

Beloniformes; Adrianichthyidae; Oryzinae; Oryzias.
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
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DNA Res. 5:203-216(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
MEDLINE=20070552; PubMed=10603084;
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AY061910;
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AB013392;
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AC005169; AAC62141.2; -.
AL161574; CAB79697.1; -.
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22; Conserv
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BAB09885.1; -.
AAK96533.1; -.
AAL31237.1; -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gardner M.J., Tettelin H., Carucci D.J., Cummings L.M., Aravind L., Koonin E.V., Shallom S., Mason T., Yu K., Fujii C., Pederson J., Shen K., Jing J., Aston C., Lai Z., Schwartz D.C., Pertea M., Salzberg S., Zhou L., Sutton G.G., Clayton R., White O., Smith H.O. Fraser C.M., Adams M.D., Venter J.C., Hoffman S.L.;
Schizosaccharomyces pombe (Fission yeast).
Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes; Schizosaccharomycetales; Schizosaccharomycetaceae;
                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; AJ238274; CAB40969.1; Ribosomal protein. SEQUENCE 59 AA; 6660 MW;
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                                                                                                                                                                                                                                                                                                                 SEQUENCE
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Eukaryota; Alveolata;
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30-MAY-2000 (Rel. 39,
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096269;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Science 282:1126-1132(1998).
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RA Gentles S., Goble A., Hamlin N., Harris D., Hddalgo J., Hodgson G.,
RA Holroyd S., Hornsby T., Howarth S., Huckle E.J., Hunt S., Jagels K.,
RA Holroyd S., Hornsby T., Howarth S., McDonald S., McLean J.,
RA Mooney P., Moule S., Mungall K., Murphy L., Niblett D., Odell C.,
RA Oliver K., O'Neil S., Pearson D., Seeger K., Sharp S.,
RA RA Collins K., Rutter S., Saunders D., Seeger K., Sharp S.,
RA RA Verico T., Volckaert G., Ravit R., Robben J., Grymonprez B.,
RA Woodward J., Volckaert G., Aert R., Robben J., Grymonprez B.,
RA Woodward J., Volckaert G., Holzer E., Noestl D., Hilbert H.,
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RA Gabel C., Fuchs M., Fritzc C., Holzer E., Moestl D., Hilbert H.,
RA Gabel C., Fuchs M., Fritzc C., Holzer E., Moestl D., Hilbert H.,
RA Goffeau A., Cadieu E., Dreano S., Gloux S., Lelaure V., Mottier S.,
RA Galibert F., Aves S.J., Xiang Z., Hunt C., Moore K., Hurst S.M.,
RA Galibert F., Aves S.J., Xiang Z., Hunt C., Moore K., Hurst S.M.,
LCass M., Rochet M., Gaillardin C., Tallada V.A., Garzon A., Thode G.,
RA Lucas M., Rochet M., Gaillardin C., Tallada V.A., Garzon A., Thode G.,
RA Daga R.R., Cruzado L., Jimenez J., Sanchez M., del Rey F., Benito J.,
RA Dominguez A., Revuelta J.L., Moreno S., Armstrong J., Forsburg S.L.,
RA Shpakovski G.V., Ussery D., Barrell B.G., Nurse P.,
"The genome sequence of Schizosaccharomyces pombe.";
RT Time genome sequence of Schizosaccharomyces pombe.";
C. This Grymon S., Armstrong J., Porsburg S.L.,
C. This Grymon S., Ra RE TWO GENES FOR S30 IN S.POMBE.

1. Mature 415:871-880(2002).
C. This Grymon S., Armstrong J., Porsburg S.L.,
C. This Grymon S., Armstrong J
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lenaers G., Perret E., Bonnet C., Caput D., Picard A.; "Transcription of ribosomal genes is down regulated by starvation in fission yeast."; Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL;
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AL390814; CAC00552.1;
AL021839; CAA17057.2;
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Hughes B., Pohl T.M.;

Submitted (JUL-1996) to the EMBL/GenBank/DDBJ databases.

-i- MASS SPECTROMETRY: MW=6987; MW_ERR=3.4; METHOD=MALDI.

-i- MISCELLANEOUS: THERE ARE TWO GENES FOR S30 IN YEAST.

-i- SIMILARITY: BELONGS TO THE S30E FAMILY OF RIBOSOMAL PROTEINS.
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Baker R.T., Williamson N.A., Wettenhall R.E.H.;
Baker R.T., Williamson N.A., Wettenhall protein S30 is expressed
"The yeast homolog of mammalian ribosomal protein S30 is expressed
from a duplicated gene without a ubiquitin-like protein fusion
sequence. Evolutionary implications.";
Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eu
Actinopterygii; Neopterygii; Teleostei; Euteleostei;
                                                                                                                     15-JUN-2002 (Rel. 41,
15-JUN-2002 (Rel. 41,
15-JUN-2002 (Rel. 41,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Saccharomyces cerevisiae (Baker's
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14. U48699; AAC49316.1; -...
15. U83406; AAB41050.1; -...
16. U83407; AAB41051.1; -...
17. U17243; AAB67333.1; -...
17. Z75090; CAA99391.1; -...
                                                                                                                                                                                                                                                                                                                                                                                                           KVHGSLARAGKV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       S0004278; RPS30A.
S0005708; RPS30B.
                                                                                                                                                                                                                                                                                                                                                       Similarity
12; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           equires a license agreement (See http://www.lsb-sib.ch/announce/email to license@isb-sib.ch).
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                                                                                                   protein
                                                                                                                                                                                                                              STANDARD;
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                                                                                                (Fragment).
                                                                                                                   sequence update)
annotation update)
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Pred. No.
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M., Johnson D.,
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man P.,
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Matches 11; Conser
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P18818;
01-NOV-1990
                                                                                                                                                                                                                           Pfam; PF00816; Histone_HNS; 1.
ProDom; PD007337; Histone_HNS; 1.
SMART; SM00528; HNS; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-Skin mucus; Fernandes J.M.O., Smith V.J.; Fernandes J.M.O., Smith V.J.; novel antimicrobial function for a ribosomal peptide from skin secretions of rainbow trout."; Submitted (APR-2002) to the SWISS-PROT data bank.
-I- FUNCTION: Has antibacterial activity against Gram-positive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-NOV-1990
01-NOV-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    la Teana A., Falconi M., Scarlato V., Lammi M., Pon C.L.; "Characterization of the structural genes for the DNA-binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Proteus vulgaris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HNS OR HNSA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=89171270; PubMed=2494066;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE,
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                                                                                                                                                                               INIT_MET
                                                                                                                                                                                                        ONA-binding; Transcription regulation; Repressor
                                                                                                                                                                                                                                                                                                            InterPro;
  28
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                                                                                                                                                                                                                                                                                                                                                            SUBUNIT: HOMODIMER.
SIMILARITY: BELONGS TO THE HISTONE-LIKE PROTEIN H-NS FAMILY: S02776; S02776.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        S in Enterobacteriaceae.";

S Lett. 244:34-38(1989).

FUNCTION: H-NS BINDS TIGHTLY TO DS-DNA, INCREASES ITS THERMAL STABILLTY AND INHIBITS TRANSCRIPTION. IT ALSO BINDS TO SS-DNA AND RNA BUT WITH A MUCH LOWER AFFINITY. H-NS HAS POSSIBLE HISTONE-LIKE FUNCTION. MAY BE A GLOBAL TRANSCRIPTIONAL REGULATOR THROUGH ITS ABILLTY TO BIND TO CURVED DNA SEQUENCES, WHICH ARE FOUND IN REGIONS UPSTREAM OF A CERTAIN SUBSET OF PROMOTERS. IT PLAYS A ROLE IN THE THERMAL CONTROL OF PILL PRODUCTION. IT SUBJECT TO TRANSCRIPTIONAL AUTO-REPRESSION. IT BLNDS PREFERENTIALLY TO THE UPSTREAM REGION OF ITS OWN GENE RECOGNIZING TWO SEGMENTS OF DNA ON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bacteria.
                                                                                                                                                                                                                                                                                                                                                                                                                                           BOTH SIDES OF A BEND CENTERED AROUND -150 (BY SIMILARITY).
  KTGRAKR 34
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                                                                                                                                                                                                                                                                                                 Pro; IPR001801; Histone_HNS.
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(Rel. 16, Last sequence update)
(Rel. 32, Last annotation update)
protein H-NS (Histone-like protein
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o. 3.3;
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                                                                                                 Length 133;
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                                                                                            This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no restructed by non-profit institutions as long as its content modified and this statement is not removed. Usage by and
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                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (Human).

Mortazoa; Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     i5-JUN-2002 (Rel. 41, Created)
15-JUN-2002 (Rel. 41, Last sequence up
15-JUN-2002 (Rel. 41, Last annotation
Coronin 1B (Coronin 2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WormPep; C32A3.2; CE01506.
Hypothetical protein.
SEQUENCE 346 AA; 39221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A. STRAIN-Bristol N2;
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Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoldea;
Rhabditidae; Peloderinae; Caenorhabditis.
NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hypothetical C32A3.2.
                                                                                                                                                                                                                                                           Strausberg R.;
                                                                                                                                                                                                                                                                               TISSUE-Placenta;
                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORO1B.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (FEB-1995) to the EMBL/GenBank/DDBJ databases.
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PROSITE; PS50082; WD_REPEATS_2; 2.
PROSITE; PS50082; WD_REPEATS_2; 2.
PROSITE; PS50294; WD_REPEATS_REGION; 1.
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REPEAT 130 170 WD 2.
REPEAT 174 213 WD 3.
REPEAT 217 260 WD 4.
REPEAT 265 305 WD 4.
REPEAT 265 305 WD 5.
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SEQUENCE 489 AA; 54234 MW; A6012FDA683E
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         POLS_EEVVM STANDARD; PRT; 1254 AA. p36331; Q66587; Q66588; Q66589; Q66590; Q66591; Q1-JUN-1994 (Rel. 29, Cast ed) Q1-JUN-1994 (Rel. 29, Last sequence update) 16-OCT-2001 (Rel. 40, Last annotation update) Structural polyprotein (P130) [Contains: Coat protein C (EC 3.4.21.-) (Capsid protein C); Spike 91ycoprotein E2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SMART;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 kDa peptide; Spike glycoprotein E1].
Venezuelan equine encephalitis virus (strain Mena II)
Viruses; SSRNA positive-strand viruses, no DNA stage;
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SIMILARITY: THE PROTEASE BELONGS TO PEPTIDASE FAMILY
; L04599; AAA42990.1;
; L04599; AAA42989.1;
; L04599; AAA42991.1;
; L04599; AAA42992.1;
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01-APR-1990 (Rel. 14, Last sequence upda
01-FEB-1996 (Rel. 33, Last annotation up
40s ribosomal protein s27a.
Dictyostelium discoideum (Slime mold).
Eukaryota; Mycetozoa; Dictyosteliida; Di
between the Swiss Institute of Bioinformat
the European Bioinformatics Institute. The
use by non-profit institutions as long
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Biochemistry 28:5226-5231(1989).
-!- MISCELLANEOUS: THIS RIBOSOMAL
                                                                                                                                                                                                                                            MEDLINE-89352609; PubMed-2548604; Ohmachi T., Giorda R., Shaw D.R., "Molecular organization of develop
                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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                                                                                                                                                      -!- MISCELLANEOUS: THIS RIBOSOMAL PROTEIN IS SYNTHESIZED AS A C-TERMINAL EXTENSION PROTEIN (CEP) OF UBIQUITIN.
-!- SIMILARITY: BELONGS TO THE S27AE FAMILY OF RIBOSOMAL PROTEINS
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ErPro; IPR000930; Togavirin.
ErP00943; Alpha_E2_91ycop; 1.
Erp00944; Alpha_core; 1.
Erp00545; Alpha_E3_91ycop; 1.
Erp01563; Alpha_E3_91ycop; 1.
Erp01589; Alpha_E1_91ycop; 1.
Erp01589; Alpha_E1_91ycop; 1.
Erp01589; Alpha_E1_91ycop; 1.
Erp01589; Alpha_E1_91ycop; 1.
Erp01589; Togavirin.
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RESULT 13
RS18_BACC
RS18_AC P2147
DT 01-MA
RESULT
RN [1]
RN [1]
RN [1]
RN [2]
RN [1]
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        RXLNW=100;

RA AZEVEGO V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,

RA AZEVEGO V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,

RA AZEVEGO V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,

RA AZEVEGO V., Bertero M.G., Berns A., Brignell S.C., Bron S.,

RA Borniss R., Boursier L., Brans A., Brignell S.C., Bron S.,

RA Chois S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Chid S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Chid S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Chid S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Chid S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N.,

RA Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N.,

RA Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,

RA Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,

RA Hilbert H., Holsappel S., Hosono S., Hullo M.F., Itaya M., Jones L.,

RA Hilbert H., Holsappel S., Hosono S., Hullo M.F., Itaya M., Jones L.,

RA Kobayashi Y., Koetter P., Koningstein G., Krogh S., Kumano M.,

RA Kurita K., Lapidus A., Lardinois S., Lauber J., Lazarevic V.,

RA Kurita K., Lapidus A., Lardinois S., Lauber J., Lazarevic V.,

RA Kurita K., Lapidus A., Lardinois S., Lauber J., Nakai S., Noback M.,

RA Medina N., Mellado R.P., Mizuno M., Moesti D., Nakai S., Noback M.,

RA Noone D., O'Reilly M., Ogawa K., Ogivara A., Oudega B., Park S.H.,

RA Parro V., Pohl T.M., Ogawa K., Ogivara A., Oudega B., Park S.H.,

RA Rieger M., Rivolta C., Rocha E., Rocha B., Rose M., Sadaie Y.,

RA Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,

RA Setiguchi J., Sekowska A., Seror S.J., Serror P., Shin B.S., Soldo B.,

RA Fight R., Waller B., Vandenbol M., Vannier F., Vassarotti A.,

RA Vinters P., Wipha A., Yanmanot H., Yanane K., Yasumoto K., Yata K.,

Pate Complete genome sequence of the Gram-positive bacterium Bacillus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
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01-OCT-1994
15-JUN-2002
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RS18_BA
P21475;
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Pfam; PF01599; Ribosomal_S27; 1.
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  "The complete subtilis.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ogasawara N., Nakai S., Yoshikawa H.;
"Systematic sequencing of the 180 kilobase region of the subtilis chromosome containing the replication origin.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE-96051385;
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E34080; UQDOR7.
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Pred.
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EX7S_VIBCH
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Best Local :
                                                                    STRAIN-EL TOR N16961 / Serotype 01;
MEDLINE-20406833; PubMed-10952301;
Heidelberg J.F., Eisen J.A., Nelson W.C., Clayton R.A., Gwinn M.L.,
Dodson R.J., Haft D.H., Hickey E.K., Peterson J.D., Umayam L.A.,
Cill S.R., Nelson K.E., Read T.D., Tettelin H., Richardson D.,
Ermolaeva M.D., Vamathevan J., Bass S., Qin H., Dragoi I., Sellers P.,
McDonald L., Utterback T., Fleischmann R.D., Nierman W.C., White O.,
Salzberg S.L., Smith H.O., Colwell R.R., Mekalanos J.J., Venter J.C.,
Fraser C.M.;
                                                                                                                                                                                                                                                                                                                                       EX7S_VIBCH Q9KTL1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Higo K.I., Otaka E., Osawa S.;
"Purification and characterization of 30S ribosomal proteins Bacillus subtilis: correlation to Escherichia coli 30S proteing Mol. Gen. Genet. 185:239-244(1982).

Mol. Gen. Genet. 185:239-244(1982).
Nature 406:477-483(2000).
Nature 406:477-483(2000).
-!- FUNCTION: BIDIRECTIONALLY DEGRADES SINGLE-STRANDED DNA INTO LARGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Prodom; PD002239; Ribosomal_S18; 1.
TIGRFAMS; TIGR00165; S18; 1.
PROSITE; PS00057; RIBOSOMAL_S18; 1.
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InterPro; IPR001648; Ribosomal_S18
Pfam; PF01084; Ribosomal_S18; 1.
PRINTS; PR00974; RIBOSOMALS18.
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                                               cholerae.
                                                                                                                                                                                                                                  Vibrio cholerae.
Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                  16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
15-OCT-2002 (Rel. 41, Last annotation update)
Probable exodeoxyribonuclease VII small subunit
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Higo K.I., Otaka E.,
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                                                                                                                                                                                                                     NCBI_TaxID=666;
                                                                                                                                                                                                                                                          (Exonuclease VII XSEB OR VC0891.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ribosomal protein; RNA-binding; Complete proteome. INIT_MET 0 \ 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nature 390:249-256(1997).
[3]
                                                          "DNA sequence
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messenger RNA.
SIMILARITY: BEI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                s SWISS-PROT entry is copyright. It is produced through ween the Swiss Institute of Bioinformatics and the EN European Bioinformatics Institute. There are no restr
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Z99124; CAB16126.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and this statement is not removed. Usage by and for commercial requires a license agreement (See http://www.isb-sib.ch/announce/an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      non-profit institutions as long
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                                                            of both
                                                                                                                                                                                                                                                                                                                                                     STANDARD;
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                                                                                                                                                                                                                                                                       small subunit).
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                                                            chromosomes
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                                                                                                                                                                                                                                gamma subdivision; Vibrionaceae; Vibrio
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Pred. No.
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                                                             of the
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RESULT 15
YGRM_MICEC
ID YGRM_M
AC P24620
DT 01-MAR
DT 01-MAR
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DT 01-MAR
OC ACLINC
OC MICTON
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RA KELemu
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NCBI_TaxID=1877;
[1]
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01-MAR 1992 (Rel. 21, Created)

01-MAR 1992 (Rel. 21, Last sequence update)

16-OCT-2001 (Rel. 40, Last annotation update)

Hypothetical protein in grm 3'region (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR003761; Exonuc_VII_S.

Pfam; PF02609; Exonuc_VII_S; 1.

TIGRFAMS; TIGR01280; xseB; 1.

Hydrolase; Nuclease; Exonuclease; Complete proteome.

Hydrolase; Nuclease; Exonuclease; Complete proteome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Micromonospora purpurea and Micromonospora rosea."; Gene 98:53-60(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A. MEDLINE-91192615; PubMed-2013410;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Micromonospora echinospora (Micromonospora purpurea).
Bacteria; Actinobacteria; Actinobacteria (class); Actinobacteridae;
Actinomycetales; Micromonosporineae; Micromonosporaceae;
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                                                                                                                                                                                                                                                                                                             Antibiotic resistance; Hypothetical protein.
NON_TER 105 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kelemen G.H., Cundliffe E., Financsek I.;
"Cloning and characterization of gentamicin-resistance genes from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         YGRM_MICEC
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100.0%; Pr
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Pred. No.
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Mismatches
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o. 22;
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Search completed: January Job time : 11 secs 9, 2003, 12:29:50

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Minimum
Maximum
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113
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 11333555
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7
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Match
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59
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sp_unclassified:*
sp_rvirus:*
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      Q962Q1
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Q9M0E4
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Q9VDH8
Q18231
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            Q15351 homo sapien
Q9vdh8 drosophila
Q18231 caenorhabdi
Q962q1 spodoptera
Q989)0 arabidopsis
Q9717 clostridium
Q91657 proteus mir
                                                           Q9h5v4 homo sapien
Q9j324 mus musculu
Q920w8 mus musculu
Q920w7 mus spicile
Q91v99 mus musculu
Q90ypl ictalurus p
Q9m0e4 arabidopsis
Q15351 homo sapien
                                                                                                                                      Description
     091657 proteus mir
09rse5 deinococcus
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7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
11.9	11.9	11.9	11.9	11.9	11.9	۲.	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9			11.9		11.9
1264	1254	1254	1254	1254	1254	863	806	594	576	542	454	429	424	381	380	380	339	314	309	283	259	233	233	233	224	215	198	173
12	12	12	12	12	12	10	10	16	4	13	16	ນ	16	4	S	4	տ	16	S	4	16	10	10	10	10	H	٧	10
Q8UYH1	Q8V291	Q8V293	Q88979	Q9YKD3	Q9WC26	Q9M0D8	Q9M8T5	Q98CL9	Q9NXU4	Q91290	Q9K5Q9	Q9X4J1	Q9S2F0	Q15694	9M0M6	Q96GN4	Q95XC7	066535	Q95T41	Q9NSK3	Q9AD23	090905	926366	Q9FZ76	Q9LIR5	Q64075	Q9AGU8	Q9ZQB1
Q8uyhl venezuelan	Q8v291 venezuelan	Q8v293 venezuelan	Q88979 venezuelan	Q9ykd3 venezuelan	Q9wc26 venezuelan		Q9m8t5 arabidopsis	Q98c19 rhizobium 1	2		ω	ω	0 str	Q15694 homo sapien	Q9w0w6 drosophila	Q96gn4 homo sapien	Q95xc7 caenorhabd1	O66535 aquifex aeo		5				σ	arabido	Q64075 rattus sp.	σ	Q9zqbl arabidopsis

ALIGNMENTS

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                                                                                                             ID DOTTO
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Q9H5V4
                                                                   Query Match
Best Local
                                                       Matches
                                                                                                                                                                   Watanabe K., Kumagai A., Itakura S., Yamazaki M., Idakura S., Yamazaki M., Idakura S., Yamazaki M., Idakura S., Yamazaki M., Nishi T., Shibahara T., Tanaka T., Nakamura Y., Isogai T., Sugano S.;
"NEDO human cDNA sequencing project.";
"NEDO human cDNA sequencing project.";
Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
EMBL; AKOZ6639; BABI5515.1;
HSSP: P02248; IUBI
InterPro; IPR000626; Ubiquitin.
Pfam; PP00240; Ubiquitin; 1.
                                                                                                                                                                                                                                                                                                                                              O9H5V4 PRELIMINARY; PRT; 13 AA.
O9H5V4;
O1-MAR-2001 (TrEMBLrel. 16, Created)
O1-MAR-2001 (TrEMBLrel. 16, Last sequence update)
O1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
CDNa: FLJ22986 fis, clone KAT11742.
HOmo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                       PRINTS; PRO0348; UBIQUITIN.
SMART; SMO0213; UBO; 1.
PROSITE; PS00299; UBIQUITIN_1;
PROSITE; PS50053; UBIQUITIN_2;
SEQUENCE 133 AA; 14390 MW;
                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9606;
 75
Similarity
                                                       Conservative
                                                                   100.0%;
                                                   Score 59; DB Pred. No. 3.5 O; Mismatches
                                                                                                          1.
1.
5D2F81F2A355B559 CRC64;
                                                      DB 4; 1
3.5e-56;
hes 0;
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RESULT

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RESULT
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RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamahaka I.,
RA Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamahaka I.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Sakait K., Okido T., Fruuno M., Aono H., Baldarcelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Blake J., Boffelli D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Blake J., Matsuo Y., Mashima J., Mazzarelli J., Mombaerts P.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Mynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
RA Mynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                    MGD; MGI:102547; Fau.
InterPro; IPRO00626; Ubiquitin: 1.
Pfam; PF00240; ubiquitin: 1.
PRINTS; PR00348; UBIQUITIN.
SMART; SM00213; UBO: 1.
SMART; SM00213; UBO: 1.
PROSITE; PS0029; UBIQUITIN_1; 1
PROSITE; PS0053; UBIQUITIN_2; 1
SEQUENCE 133 AA; 14416 MW; 2
0920W8 PREJ....
0920W8;
01-DEC-2001 (TremBirel. 19,
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Q9JJ24;
Q1-OCT-2000
01-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nature 409:685-690(2001).
EMBL; AF147745; AAF80246.1; -.
EMBL; AK008466; BAB25684.1; -.
EMBL; AK002355; BAB22034.1; -.
HSSP; P02248; 1UBI.
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FAU.
Mus musculus (Mouse).
Metazoa; Chordata;
Metazoa; Rodentia;
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01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-DCT-2000 (TrEMBLrel. 19, Last annotation update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Monoclonal non-specific suppressor factor beta (Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed) (fox
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           one of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Functional annotation of a full-length mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hayashizaki Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=21085660;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Identification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nie G.-Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                         75
                                                                                                                                                                 Y., Li Y., Salamonsen L.A., Clements J.A., Findlay J.K.; ification of monoclonal non-specific suppressor factor bethe genes differentially expressed at implantation sites ed to interimplantation sites in the mouse uterus."; ted (MAY-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
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6J; TISSUE-SMALL INTESTINE,
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                                                                                                                                                                                                                                                                  100.0%;
                                   Created)
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                                                                                                                                                                                                                                                                  Score 59;
Pred. No.
                                                                         PRT;
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                                                                                                                                                                                                                                                                                                                          20B7C774A022AB16 CRC64;
                                                                                                                                                                                                                                                Mismatches
                                                                         137
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                                                                                                                                                                                                                                             DB 11;
3.5e-56;
hes 0;
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; Murinae; Mus
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factor beta
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RESULT
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Matches 59
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Best Local
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SEQUENCE FROM N.A.
STRAIN-BLG2/MSF;
Kitano T., ]
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01-DEC-2001
01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                   Q920W7;
                                                                                                                                                                                              Five Mus musculus subspecies."; Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases. EMBL; AB039093; BAB68617.1; -
                                                                                                                                                                                                                                                                            Mus spicilegus (Steppe mouse)
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10103;
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Mammalia; Eutheria;
NCBI_TaxID=10090;
                                                                                                                                                        PROSITE; PS00299; UBIQUITIN_1; PROSITE; PS50053; UBIQUITIN_2;
                                                                                                                                        SEQUENCE
                                                                                                                                                                              Pfam;
                                                                                                                                                                                                                            Liu Y., Kitano T., Koide T., Shiroishi T., Moriv
Conspicuous Differences among Gene Genealogies
                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AB039086; BAB68610.1; -. InterPro; IPR000626; Ubiquitin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (FEB-2000) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Conspicuous Differences among
Five Mus musculus subspecies."
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01-MAR-2002
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rE; PS00299; UBIQUITIN_
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Similarity 100.0%;
59; Conservative 0
                                                                                                          Similarity
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Rodentia;
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Last annotation updat
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Pred. No. 3.6
0; Mismatches
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                                                                                                          Score 59; DB 11;
Pred. No. 3.6e-56
                                                                                                                                                                                                                                                                                       Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sciurognathi;
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ogies of 21 Nuclear (
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ogies of 21
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                                                                                                                    Length 137;
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                                                                                                 Indels
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RESULT OPONYPIL OPONY
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Best Local
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Submitted (FEB-2000) to the EMBL/GenBank/DDBJ dat EMBL; AB039084; BAB68608.1;
EMBL; AB039085; BAB68608.1;
EMBL; AB039085; BAB68611.1;
EMBL; AB039089; BAB68611.1;
EMBL; AB039089; BAB68611.1;
EMBL; AB039089; BAB68613.1;
EMBL; AB039090; BAB68613.1;
EMBL; AB039091; BAB68615.1;
EMBL; AB039092; BAB68615.1;
EMBL; AB0
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Ictalurus punctatus (Channel catfish). ELKaryota; Metazoa; Chordata; Craniata; Ve
                                                                                                                       Matches
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01-DEC-2001
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID-10090;
                                                                                                                                                                                                                                                                                                                                                                                              expression.";
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ EMBL; AF402841; AAK95215.1;
InterPro; IPR000626; UDiquitin.
Pfam; PF00240; ubiquitin; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Karsi A., Patterson A., Feng J., Liu Z.J.; "Translational machinery of channel catfish: I. A transcriptomic approach to the analysis of 32 40S ribosomal protein genes and ti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-VARIOUS STRAINS;
Liu Y., Kitano T., Koid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                             PROSITE; PS50053; UBIQUITIN_2; 1.
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59; Conserv
                                                                                                                                                            Similarity
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larity 100.0%;
Conservative (
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                                                                                                                                                            Score 23;
Pred. No.
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                                             59
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Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                               62036BB0E72C5CAC CRC64;
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Matches 22
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Lennard N., Quail M., H.
Mewes H.W., Lemcke K., J
Submitted (MAR-2000) to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q9M0E4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Shinn P., Chen H., Cheuk R., Kim C.J., Koesema E., Meyers M.C., Banh J., Bowser L., Carninci P., Dale J.M., Goldsmith A.D., Hayashizaki Y., Ishida J., Jiang P.X., Jones T., Kamiya A., Karlin-Neumann G., Kawai J., Lam B., Lee J.M., Lin J., Liu S.X., Miranda M., Narusaka M., Nguyen M., Onodera C.S., Palm C.J., Pham P.K., Quach H.L., Sakurai T., Satou M., Seki M., Southwick / Tang C.C., Toriumi M., Yamada K., Yamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis A., Ecker J.R.; "Arabidopsis cDNA clones.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Ribosomal protein S30 homolog (40S ribosomal protein S30 homolog)
                                                                                                                                                             Submitted (OCT-2001) to the EMBL; AL161574; CAB79697.1; EMBL; AB013392; BAB09885.1; EMBL; AY052341; AAK96533.1; EMBL; AY061910; AAL31237.1;
                                                                                                                                                                                                                                                                                                                                                     Kim C.J., Chen H., Cheuk R., Koesema E., Meyers M.C., Banh J., Bowser L., Carninci P., Chang E., Dale J.M., Goldsmith A.D., Hayashizaki Y., Ishida J., Jones T., Kamiya A., Karlin-Neumann Kawai J., Lam B., Lee J.M., Lin J., Miranda M., Narusaka M., Nguyen M., Onodera C.S., Palm C.J., Quach H.L., Sakurai T., Sat Seki M., Southwick A., Tang C.C., Toriumi M., Wu H.C., Yamada K Yamamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Structural analysis of Arabidopsis thaliana chrosequence features of the regions of 1,367,185 bp physically assigned Pl and TAC clones."; bNA Res. 5:203-216(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arabidopsis thaliana (Mouse-ear cress). Embryophyta; Tracheophyta; Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; agnoliophyta; eudicotyledons; core eudicots; Rosideurosids II; Brassicales; Brassicaceae; Arabidopsis.
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AT4G29390.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=98403884; PubMed=9734815; Kotani H., Nakamura Y., Sato S.,
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. Similarity
22; Conserv
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62 AA;
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                                                                                                             6887 MW;
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., Mayer K.F.;
to the EMBL/0
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                               Score 22;
Pred. No.
                                                                                                           95D8F3EB72F53F33 CRC64;
     Mismatches
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                            DB 10; 1
2.4e-16;
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Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
Adams M.D., Celniker S.E., Li P.W., Hoskins R.A., Galle R.F.,
A Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
A George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Man K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
A Abril J.F., Agbayani A., An H.-J., Andrews Pfannkoch C., Baldwin D.,
A Abril J.F., Agbayani A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
A Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
A de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
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Q9VDH8;
Q1-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last seque
01-MAR-2002 (TrEMBLrel. 20, Last annot
CG15697 protein (RH08962p).
CG15697.
CG15697 protein (RH08962p).
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Q15351;
01-NOV-1996 (TrEMBLrel. (
01-NOV-1996 (TrEMBLrel. (
01-UN-2002 (TrEMBLrel. 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoā; Arthropoda; Tracheata; He
Pterygota; Neoptera; Endopterygota; Diptera;
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
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SEB4B(HUMAN).
HOmo sapiens (Human).
Homo sapiens (Chordata;
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PROSITE; PS00030; RRW_RNP_1; UNKNOWN_1.
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SEQUENCE 230 AA; 25220 MW; C747D650
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Mammalia; Eutheria;
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Pred. No.
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01-NOV-1996
01-NOV-1996
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Pfam; PF00240; U
132 /
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C26F1.4.
Wilson R., Ainscough R., Anderson K., Baynes C., Berks M., Bonfield J., Burton J., Connell M., Copsey T., Cooper J., Craxton M., Dear S., Du Z., Durbin R., Favello A., Fulton Gardner A., Green P., Hawkins T., Hillier L., Jier M., Joh
                                                                                      SEQUENCE FROM N.A.
STRAIN-BRISTOL N2;
MEDLINE-94150718; PubMed-7906398;
                                                                                                                                                          Caenorhabditis elegans.
Eukaryota; Metazoa; Nematoda; Chromadorea;
Rhabditidae; Peloderinae; Caenorhabditis.
NCBI_TaxID=6239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Patel S., Phouanenavong S., Celniker S.;
Submitted (DEC-2001) to the EMBL; AE003732; AAF55815.1;
EMBL; AY071683; AAL49305.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J., Chawge M., Chavez C., Dorsett V., Dresnek D., Frise George R., Gonzalez M., Guarin H., Kronmiller B., Li P., Liao G Miranda A., Mungall C.J., Nunco J., Pacleb J., Paragas V., Park Patel S., Phouanenavong S., Wan K., Yu C., Lewis S.E., Rubin G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FlyBase; FBgn0038834; CG15697.
InterPro: IPR000626; Ubiquitin.
Pfam; PF00240; ubiquitin; 1.
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15; Conser
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Pred. No.
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X., Smith H.O.
                       Johnston
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Matches 13
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0962Q1;
01-DEC-2001 (TIEMBLIEG). 1
01-DEC-2001 (TIEMBLIEG). 1
01-JUN-2002 (TIEMBLIEG). 2
Q9S9J0;
Q9S9J0;
01-MAY-2000
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Ribosomal protein S30.

Spodoptera frugiperda (Fall armyworm).

Spodoptera frugiperda (Fall armyworm).

Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

Eukaryota; Nepptera; Endopterygota; Lepidoptera; Glossata; Di

Poterygota; Nepptera; Amphipyrinae; Spodoptera.
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                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
Landais I., Ogliastro M., Mita K., Nohata J.,
Landais I., Ogliastro M., Mita K., Nohata J.,
Duonor-Cerutti M., Fournier P., Devauchelle G.
"Full-Length ribosomal protein sequence from a
Spodoptera frugiperda celis (Sf9).";
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ
EMBL; AF400225; AAK92197.1;
SEQUENCE 111 AA; 14314 MW; 03AEA0E31EBC1B0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Waterston R, Submitted (NOV-1996) to the EMBL/GenBank/DDBJ EMBL; U53148; AAB37076.1; -. HSSP: P02248; 1UBI.
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Geisel C., Stellyes L., Brad
"The sequence of C. elegans
Submitted (APR-1996) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nature 368:32-38(1994).
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STRAIN-BRISTOL N2;
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72 KVHGSLARAGKVR 84
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  cosmid C26F1.";
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MEDLINE=21359325; PubMed=11466286;
Noelling J., Breton G., Omelchenko M.V., Mak
Gibson R., Lee H.M., Dubois J., Qiu D., Hitt
Tatusov R.L., Sabathe F., Doucette-Stamm L.,
Bennett G.N., Koonin E.V., Smith D.R.;
"Genome sequence and comparative analysis of
bacterium Clostridium acetobutylicum.";
J. Bacteriol. 183:4823-4838(2001).
EMBL; AE007667; AAK79540.1; -.
                                                                                                                                                                                                                                                                                                                                                                   01-OCT-2001
01-OCT-2001
01-OCT-2001
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Q97IR7;
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Vysotskaia V.S., Schwartz J.R., Yu G., Toriumi M., Lenz C., L
Vysotskaia V.S., Schwartz J.R., Yu G., Toriumi M., Lenz C., L
Li J., Kremenetskaia I., Ngan I., Luros J., Gonzalez A., Alta
Araujo R., Chao Q., Conn L., Conway A.B., Dunn P., Hansen N.,
Huizar L., Kim C., Palm C.J., Rowley D., Shinn P., Walker M.,
Davis R.W., Ecker J.R., Federspiel N.A., Theologis A.;
"Arabidopsis thaliana chromosome I BAC T23K8 sequence.";
Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                   SEQUENCE 135 AA;
                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. STRAIN-ATCC 824 /
                                                                                                                                                                                                                                                                                                    Bacteria; Firmicutes; Bacillus/Clostridium group; Clostridia; Clostridiales; Clostridiaceae; Clostridium.
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Eukaryota; Viridiplantae; Streophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
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KQEKKKKK 131
                        KQEKKKKK 28
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Hitti J., Wolf Y
m L., Soucaille P
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EMBL; AR240693; AAF61240.1; -.
HSSP; P08936; 1HNR.
InterPro; IPR001801; Histone_HNS.
Pfam; PP00816; Histone_HNS; 1.
ProDom; PD007337; Histone_HNS; 1.
SMART; SM00528; HNS; 1.
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Q9L657;
Q1-CCT-2000 (TrEMBLrel. 15, Created)
Q1-CCT-2000 (TrEMBLrel. 15, Last sequence update)
Q1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Histone-like nucleoid structuring protein.
                                                                                                                                                                                                                                                                                       MEDLINE-20036896; PubMed-10567266;
White O., Eisen J.A., Heldelberg J.F., Hickey E.K., Peterson J.D.,
Dodson R.J., Haft D.H., Gwinn M.L., Nelson W.C., Richardson D.L.,
Moffat K.S., Qin H., Jiang L., Pamphile W., Crosby M., Shen M.,
Moffat K.S., Qin H., Jiang L., Pamphile W., Crosby M., Shen M.,
Vamathevan J.J., Lam P., McDonald L., Utterback T., Zalewski C.,
Makarova K.S., Aravind L., Daly M.J., Minton K.W., Fleischmann R.D.
Ketchum K.A., Nelson K.E., Salzberg S., Smith H.O., Venter J.C.,
Fraser C.M.;
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01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Hypothetical protein DR2179.
                                                                                                 TIGR; DR2179; -.
Hypothetical protein; Complete proteome.
SEQUENCE 154 AA; 16181 MW; 58AA86884AA0D4C4 CRC64;
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                                                                                                                                                                                   "Genome sequence of the radioresistant bacterium Deinococcus radiodurans R1.";
Science 286:1571-1577(1999).
EMBL; AE002051; AAF11732.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bacteria; Thermus/Deinococcus Deinococcaceae; Deinococcus. NCBI_TaxID=1299;
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11.9%; Score 7; DB 16; 100.0%; Pred. No. 11; Live 0; Mismatches
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